

Switch-mode power supplies

Switch-mode power supplies	Overview	A.2
	connectPower PROeco	A.4
	connectPower PROmax	A.14
	connectPower PROtop	A.30
	connectPower PRO-E	A.42
	connectPower INSTAPOWER	A.58
	connectPower DC/DC converter	A.64

Switch-mode power supplies

A

The switch-mode power supplies feature a high degree of efficiency, compact dimensions and minimal heat generation.

They are an excellent, reliable solution for providing power in all automation applications – safely providing 24 V DC voltage.

The different product series are optimised for the automation industry: they feature Ex approvals for the processing industry, a flat shape perfect for distribution tasks within buildings, or provide decentralised control voltages.

All-purpose usage: with a wide range of AC/DC inputs, single-, double- or three-phase versions, and a wide temperature range. Additional performance increases are possible using simple parallel circuitry. Weidmüller

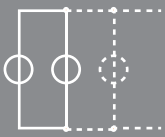
switch-mode power supplies can be depended upon for all applications because of their high efficiency and their resistance to both short circuits and overloads.

Weidmüller offers a system of one- and three-phase switch-mode power supplies especially for the PROmax family. These can be expanded with additional modules to create whole system solutions. The appropriate system can be assembled for any type of application: with redundancy circuits containing decoupled outputs, monitoring of the output voltage or triggering of circuit breakers.



AC/DC**International use**

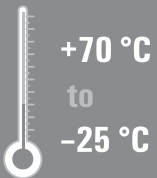
A wide-range input (both DC as well as AC voltages can be used; no switching required) and extensive approvals (UL/CSA and GL (EMC 1 – bridge)).

**Parallel connection**

Module power can be increased by connecting up to five power supplies in parallel without diode module.

**Narrow**

Space-saving configuration in the switching cabinet through very narrow housing construction and side-by-side connectability.

**Robust**

Wide temperature range from -25 °C ... +70 °C.

**Wide choice**

The right power supply for every application: 1-phase 3 A, 5 A, 7.5 A, 10 A, 20 A, 40 A and 3-phase 5 A, 10 A, 20 A, 40 A.

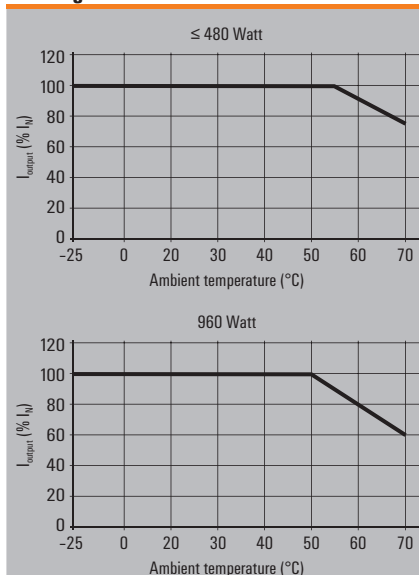
connectPower**connectPower PROeco****connectPower PROmax****connectPower PROtop****connectPower PRO-E****connectPower INSTAPOWER****connectPower DC/DC converters**

PROeco power supplies with basic functionality and a high level of reliability

- Single- and three-phase switched-mode power supply units
- Slim design
- Large temperature range from -25 °C to 70 °C
- The output voltage can be precisely adjusted via the potentiometer on the front
- Remote monitoring via integrated status relay
- Three-coloured LED indicators for simple error detection
- Advanced visual warning at 90 % rated output current
- International approvals



Derating curves



Technical data

General technical data	
Ambient temp. operating / storage temperature	-25 °C...+70 °C / -40 °C...+85 °C
Max. perm. air humidity (operation)	5 %...95 % RH
Degree of protection	IP 20
Class of protection	I, with PE connection
Pollution degree	2
Insulation voltage input/output	3 kV E/A / 2 kV E/earth / 0.5 kV A/earth
MTBF	> 500.000 h (25 °C, IEC 61709)
Parallel connection option	yes, max. 5 without diode module
Housing version	metal, corrosion resistant
Mounting position, installation notice	horizontal on mounting rail TS35, 50 mm spacing top and bottom for free air circulation
Short-circuit protection	Yes, automatic restart
Overload protection	Yes, IU characteristic curve
Overtemperature protection	Yes, automatic restart
EMC / shock / vibration	
Noise emission acc. to EN55022	Class B
Noise immunity tests acc. to	EN61000-4-2 (ESD), EN61000-4-3 and EN61000-4-8 (Fields), EN61000-4-4 (Burst), EN61000-4-5 (Surge), EN61000-4-6 (conducted), EN61000-4-11 (Dips)
Limiting of mains voltage harmonic currents	Acc. to EN61000-3-2
Resistance against vibration and shock	1 g acc. to EN50178, shock: 15 g in all directions
Electrical safety (applied standards)	
Electrical equipment of machines	Acc. to EN60204
Safety transformers for switched-mode power units	Acc. to EN61558-2-17
Machinery with electronic equipment	Acc. to EN50178 / VDE0160
Safety extra-low voltage	SELV acc. to EN60950-1, PELV acc. to EN60204-1
Protective separation / protection against electrical shock	VDE0100-410 / acc. to DIN57100-410
Protection against dangerous shock currents	Acc. to VDE0106-101

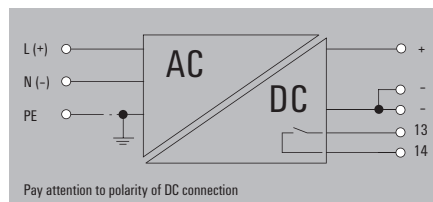
connectPower PROeco



PRO ECO 72W 24V 3A



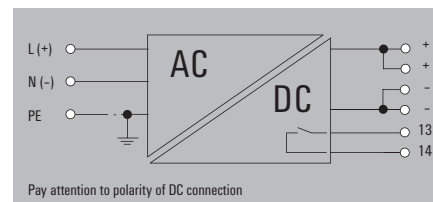
Similar to illustration



PRO ECO 120W 24V 5A



Similar to illustration



Technical data

Input	
Rated input voltage	100...240 V AC (wide-range input)
Input voltage range AC	85...264 V AC (Derating @ 100 V AC)
Frequency range AC	47...63 Hz
DC input voltage range	80...370 V DC (Derating @ 120 V DC)
AC current consumption	0,55 A @ 230 V AC / 1,04 A @ 110 V AC
DC current consumption	0,22 A @ 370 V DC / 0,68 A @ 120 V DC
Input fuse (internal) / Inrush current	Yes / max. 40 A
Recommended back-up fuse	2 A / DI, safety fuse 6 A, Char. B, circuit breaker 2...4 A, Char. C, circuit breaker
Output	
Rated output voltage	24 V DC $\pm$ 1 %
Output voltage	22...28 V (adjustable via potentiometer)
Ramp-up time / Residual ripple, breaking spikes	$\leq$ 100 ms / $<$ 50 mV _{SS} @ 24 V DC, I _N
Rated (nominal) output current @ U _{Nom}	3 A at 55 °C
Continuous output current @ U _{Rated}	3 A @ 55 °C, 2,25 A @ 70 °C
Capacitive load	unrestricted
Protection against inverse voltage	Yes
Signalling	
Indication	LED green (U _{output} > 21.6 V DC), LED yellow (I _{output} > 90% I _{Rated} typ.), LED red (overload, overtemperature, short-circuit, U _{output} < 20.4 V DC)
Floating contact / Contact load	Yes / max. 30 V DC / 1 A
Relay on/off	Output voltage >21.6 V DC / <20.4 V DC, Overload
General data	
Degree of efficiency	87 %
Power loss idling / nominal load / Power loss, nominal load	4 W / 9.5 W
Earth leakage current, max.	3.5 mA
Power factor (approx.)	> 0.5 @ 230 V AC / > 0.53 @ 115 V AC
AC failure bridging time @ I _{Nom}	> 100 ms @ 230 V AC / > 20 ms @ 115 V AC
Parallel connection option	yes, max. 5
Depth x width x height / Net weight	100 / 34 / 125 mm / 576 g
Approvals	
Approvals	CE; cULus; EAC; TUEV
Connection data	
Connection system	Screw connection
Number of terminals	3 for L/N/PE
Wire cross-section, rigid min/max	0.5 / 6
Wire cross-section, flexible min/max	0.5 / 2.5
Wire cross-section, AWG/kcmil min/max	26 / 12
Tightening torque range	0.5 / 0.6
Note	

Ordering data

Type	Qty.	Order No.
PRO ECO 72W 24V 3A	1	1469470000
Note		
The internal varistor found in a switch-mode power supply does not replace the need for surge protection within a system.		

Input		Output	
Screw connection		Screw connection	
3 for L/N/PE		5 (+, -, 13, 14)	
0.5 / 6		0.5 / 6	
0.5 / 2.5		0.5 / 2.5	
26 / 12		26 / 12	
		0.5 / 0.6	
Type		Qty.	
PRO ECO 72W 24V 3A		1	
Order No.			
		1469470000	

Input		Output	
Screw connection		Screw connection	
3 for L/N/PE		6 (+, -, 13, 14)	
0.5 / 6		0.5 / 6	
0.5 / 2.5		0.5 / 2.5	
26 / 12		26 / 12	
		0.5 / 0.6	
Type		Qty.	
PRO ECO 120W 24V 5A		1	
Order No.			
		1469480000	

Input		Output	
Screw connection		Screw connection	
3 for L/N/PE		6 (+, -, 13, 14)	
0.5 / 6		0.5 / 6	
0.5 / 2.5		0.5 / 2.5	
26 / 12		26 / 12	
		0.5 / 0.6	
Type		Qty.	
PRO ECO 120W 24V 5A		1	
Order No.			
		1469480000	

Type	Qty.	Order No.
PRO ECO 120W 24V 5A	1	1469480000
Note		
The internal varistor found in a switch-mode power supply does not replace the need for surge protection within a system.		

connectPower PROeco

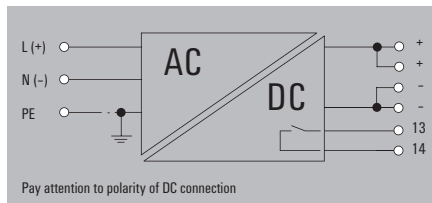
connectPower PROeco



PRO ECO 240W 24V 10A



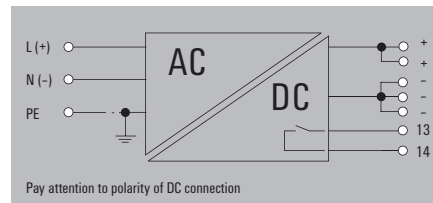
Similar to illustration



PRO ECO 480W 24V 20A



Similar to illustration



Technical data

Input	
Rated input voltage	100...240 V AC (wide-range input)
Input voltage range AC	85...264 V AC (Derating @ 100 V AC)
Frequency range AC	47...63 Hz
DC input voltage range	80...370 V DC (Derating @ 120 V DC)
AC current consumption	1,23 A @ 230 V AC / 2,47 A @ 110 V AC
DC current consumption	1,18 A @ 370 V DC / 2,4 A @ 120 V DC
Input fuse (internal) / Inrush current	Yes / max. 15 A
Recommended back-up fuse	4 A / DI, safety fuse 10 A, Char. B, circuit breaker 3...4 A, Char. C, circuit breaker
Output	
Rated output voltage	24 V DC $\pm$ 1 %
Output voltage	22...28 V (adjustable via potentiometer)
Ramp-up time / Residual ripple, breaking spikes	$\leq$ 100 ms / $<$ 50 mV _{SS} @ 24 V DC, I _N
Rated (nominal) output current @ U _{Nom}	10 A @ 55 °C
Continuous output current @ U _{Rated}	10 A @ 55 °C, 7.5 A @ 70 °C
Capacitive load	unrestricted
Protection against inverse voltage	Yes
Signalling	
Indication	LED green (U _{output} > 21.6 V DC), LED yellow (I _{output} > 90% I _{Rated} typ.), LED red (overload, overtemperature, short-circuit, U _{output} < 20.4 V DC)
Floating contact / Contact load	Yes / max. 30 V DC / 1 A
Relay on/off	Output voltage >21.6 V DC / <20.4 V DC, Overload
General data	
Degree of efficiency	90%
Power loss idling / nominal load / Power loss, nominal load	3 W / 24 W
Earth leakage current, max.	3.5 mA
Power factor (approx.)	> 0.94 @ 230 V AC / > 0.99 @ 115 V AC
AC failure bridging time @ I _{Nom}	> 20 ms @ 230 V AC / > 20 ms @ 115 V AC
Parallel connection option	yes, max. 5
Depth x width x height / Net weight	100 / 60 / 125 mm / 1055 g
Approvals	
Approvals	CE; cULus; EAC; TUEV
Connection data	
Connection system	Screw connection
Number of terminals	3 for L/N/PE
Wire cross-section, rigid min/max	0.5 / 6 mm ²
Wire cross-section, flexible min/max	0.5 / 2.5 mm ²
Wire cross-section, AWG/kcmil min/max	26 / 12
Tightening torque range	0.5 / 0.6
Note	

Ordering data

Type	Qty.	Order No.
PRO ECO 240W 24V 10A	1	1469490000
Note		
The internal varistor found in a switch-mode power supply does not replace the need for surge protection within a system.		

Input		Output	
Screw connection		Screw connection	
3 for L/N/PE		6 (+, -, 13, 14)	
0.5 / 6		0.5 / 6	
0.5 / 2.5		0.5 / 2.5	
26 / 12		26 / 12	
		0.5 / 0.6	
Type		Qty.	
PRO ECO 240W 24V 10A		1	
Order No.			
		1469490000	

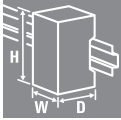
Input		Output	
Screw connection		Screw connection	
3 for L/N/PE		7 (+, -, 13, 14)	
0.5 / 6		0.5 / 6	
0.5 / 2.5		0.5 / 2.5	
26 / 12		26 / 10	
		0.5 / 0.6	
Type		Qty.	
PRO ECO 480W 24V 20A		1	
Order No.			
		1469510000	

Input		Output	
Screw connection		Screw connection	
3 for L/N/PE		7 (+, -, 13, 14)	
0.5 / 6		0.5 / 6	
0.5 / 2.5		0.5 / 2.5	
26 / 12		26 / 10	
		0.5 / 0.6	
Type		Qty.	
PRO ECO 480W 24V 20A		1	
Order No.			
		1469510000	

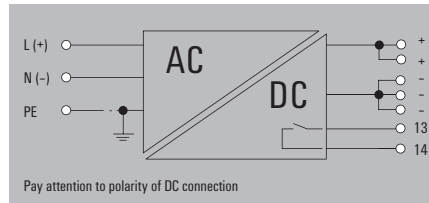
Type	Qty.	Order No.
PRO ECO 480W 24V 20A	1	1469510000
Note		
The internal varistor found in a switch-mode power supply does not replace the need for surge protection within a system.		

connectPower PROeco

PRO ECO 960W 24V 40A



Similar to illustration



Technical data

Input	
Rated input voltage	100...240 V AC (wide-range input)
Input voltage range AC	85...264 V AC (Derating @ 100 V AC)
Frequency range AC	47...63 Hz
DC input voltage range	80...370 V DC (Derating @ 120 V DC)
AC current consumption	4,6 A @ 230 V AC / 9,9 A @ 110 V AC
DC current consumption	2,9 A @ 370 V DC / 9 A @ 120 V DC
Input fuse (internal) / Inrush current	Yes / max. 5 A
Recommended back-up fuse	16 A / DI, safety fuse 20 A, Char. B, circuit breaker 16 A, Char. C, circuit breaker
Output	
Rated output voltage	24 V DC $\pm$ 1 %
Output voltage	22...28 V (adjustable via potentiometer)
Ramp-up time / Residual ripple, breaking spikes	$\leq$ 100 ms / $<$ 50 mV _{SS} @ 24 V DC, I _N
Rated (nominal) output current @ U _{Nom}	40 A @ 50 °C
Continuous output current @ U _{Rated}	40 A @ 50 °C, 24 A @ 70 °C
Capacitive load	unrestricted
Protection against inverse voltage	Yes
Signalling	
Indication	LED green (U _{output} > 21.6 V DC), LED yellow (I _{output} > 90% I _{Rated} typ.), LED red (overload, overtemperature, short-circuit, U _{output} < 20.4 V DC)
Floating contact / Contact load	Yes / max. 30 V DC / 1 A
Relay on/off	Output voltage >21.6 V DC/ <20.4 V DC, Overload
General data	
Degree of efficiency	93%
Power loss idling / nominal load / Power loss, nominal load	6 W / 76 W
Earth leakage current, max.	3.5 mA
Power factor (approx.)	> 0.98 @ 230 V AC / > 0.98 @ 115 V AC
AC failure bridging time @ I _{Nom}	> 20 ms @ 230 V AC / > 20 ms @ 115 V AC
Parallel connection option	yes, max. 3
Depth x width x height / Net weight	120 / 160 / 125 mm / 3019 g
Approvals	
Approvals	CE; cULus; EAC; TUEV
Connection data	
Connection system	Screw connection
Number of terminals	7 (+, -, 13, 14)
Wire cross-section, rigid min/max	0.5 / 6
Wire cross-section, flexible min/max	0.5 / 2.5
Wire cross-section, AWG/kcmil min/max	26 / 12
Tightening torque range	0.5 / 0.6
Note	

Ordering data

Type	Qty.	Order No.
PRO ECO 960W 24V 40A	1	1469520000

Note

The internal varistor found in a switch-mode power supply does not replace the need for surge protection within a system.

connectPower PROeco

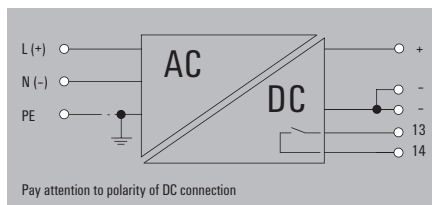
connectPower PROeco



PRO ECO 72W 12V 6A



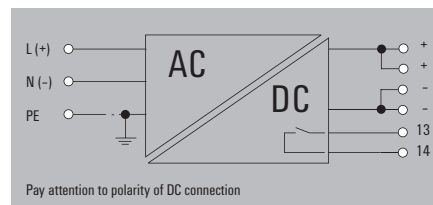
Similar to illustration



PRO ECO 120W 12V 10A



Similar to illustration



Technical data

Input
Rated input voltage
Input voltage range AC
Frequency range AC
DC input voltage range
AC current consumption
DC current consumption
Input fuse (internal) / Inrush current
Recommended back-up fuse

Output
Rated output voltage
Output voltage
Ramp-up time / Residual ripple, breaking spikes
Rated (nominal) output current @ U_{Nom}
Continuous output current @ U_{Rated}
Capacitive load
Protection against inverse voltage

Signalling
Indication

Floating contact / Contact load
Relay on/off

General data
Degree of efficiency
Power loss idling / nominal load / Power loss, nominal load
Earth leakage current, max.
Power factor (approx.)
AC failure bridging time @ I_{Nom}
Parallel connection option
Depth x width x height / Net weight

Approvals
Approvals

Connection data
Connection system
Number of terminals
Wire cross-section, rigid min/max
Wire cross-section, flexible min/max
Wire cross-section, AWG/kcmil min/max
Tightening torque range

Note

Ordering data

Type	Qty.	Order No.
------	------	-----------

PRO ECO 72W 12V 6A	1	1469570000
--------------------	---	------------

Note

100...240 V AC (wide-range input)
85...264 V AC (Derating @ 100 V AC)
47...63 Hz
80...370 V DC (Derating @ 120 V DC)
0.6 A @ 230 V AC / 1.1 A @ 115 V AC
0.25 A @ 370 V DC / 0.7 A @ 120 V DC
Yes / max. 40 A
2 A / DI, safety fuse
6 A, Char. B, circuit breaker
2...4 A, Char. C, circuit breaker

12 V DC $\pm$ 1 %
10...16 V (adjustable via potentiometer)
≤ 100 ms / < 50 mV ss @ 12 V DC, I Nenn
6 A @ 55 °C
6 A @ 55 °C, 4.5 A @ 70 °C
unrestricted
Yes

LED green ($U_{output} > 21.6$ V DC), LED yellow ($I_{output} > 90\% I_{Rated}$ typ.), LED red (overload, overtemperature, short-circuit, $U_{output} < 20.4$ V DC)
Yes / max. 30 V DC / 1 A
Output voltage > 21.6 V DC / < 20.4 V DC, Overload

85 %
4 W / 15 W
3.5 mA
> 0.5 @ 230 V AC / > 0.53 @ 115 V AC
> 100 ms @ 230 V AC / > 20 ms @ 115 V AC
yes, max. 5
100 / 34 / 125 mm / 593 g

CE; cULus; EAC; TUEV

Input	Output
Screw connection	Screw connection
3 for L/N/PE	5 (+, -, 13, 14)
0.5 / 6	0.5 / 6
0.5 / 2.5	0.5 / 2.5
26 / 12	26 / 12
	0.5 / 0.6

Type	Qty.	Order No.
------	------	-----------

PRO ECO 72W 12V 6A	1	1469570000
--------------------	---	------------

Note

The internal varistor found in a switch-mode power supply does not replace the need for surge protection within a system.

100...240 V AC (wide-range input)
85...264 V AC (Derating @ 100 V AC)
47...63 Hz
80...370 V DC (Derating @ 120 V DC)
1.25 A @ 230 V AC / 2.25 A @ 110 V AC
0.4 A @ 370 V DC / 1.2 A @ 120 V DC
Yes / max. 40 A
4 A / DI, safety fuse
6 A, Char. B, circuit breaker
3...5 A, Char. C, circuit breaker

12 V DC $\pm$ 1 %
10...16 V (adjustable via potentiometer)
≤ 100 ms / < 50 mV ss @ 12 V DC, I Nenn
10 A @ 55 °C
10 A @ 55 °C, 7.5 A @ 70 °C
unrestricted
Yes

LED green ($U_{output} > 21.6$ V DC), LED yellow ($I_{output} > 90\% I_{Rated}$ typ.), LED red (overload, overtemperature, short-circuit, $U_{output} < 20.4$ V DC)
Yes / max. 30 V DC / 1 A
Output voltage > 21.6 V DC / < 20.4 V DC, Overload

87 %
4 W / 20 W
3.5 mA
> 0.5 @ 230 V AC / > 0.53 @ 115 V AC
> 80 ms @ 230 V AC / > 20 ms @ 115 V AC
yes, max. 5
100 / 40 / 125 mm / 690 g

CE; cULus; EAC; TUEV

Input	Output
Screw connection	Screw connection
3 for L/N/PE	6 (+, -, 13, 14)
0.5 / 6	0.5 / 6
0.5 / 2.5	0.5 / 2.5
26 / 12	26 / 12
	0.5 / 0.6

Type	Qty.	Order No.
------	------	-----------

PRO ECO 120W 12V 10A	1	1469580000
----------------------	---	------------

Note

The internal varistor found in a switch-mode power supply does not replace the need for surge protection within a system.

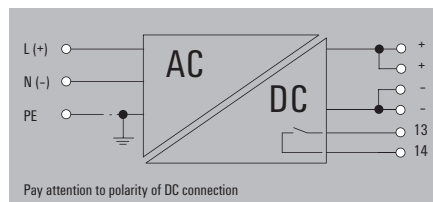
connectPower PROeco



PRO ECO 240W 48V 5A



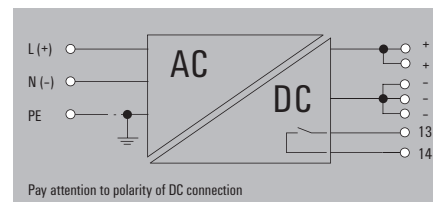
Similar to illustration



PRO ECO 480W 48V 10A



Similar to illustration



Technical data

Input	
Rated input voltage	100...240 V AC (wide-range input)
Input voltage range AC	85...264 V AC (Derating @ 100 V AC)
Frequency range AC	47...63 Hz
DC input voltage range	80...370 V DC (Derating @ 120 V DC)
AC current consumption	1.2 A @ 230 V AC / 2.4 A @ 115 V AC
DC current consumption	1.2 A @ 370 V DC / 2.4 A @ 120 V DC
Input fuse (internal) / Inrush current	Yes / Max. 10 A
Recommended back-up fuse	4 A / DI, safety fuse 10 A, Char. B, circuit breaker 3...4 A, Char. C, circuit breaker
Output	
Rated output voltage	48 V DC $\pm$ 1 %
Output voltage	42...56 V (adjustable via potentiometer)
Ramp-up time / Residual ripple, breaking spikes	$\leq$ 100 ms / $<$ 100 mV ss @ 48 V DC, I Nenn
Rated (nominal) output current @ U_{Nenn}	5 A at 55 °C
Continuous output current @ U_{Rated}	5 A @ 55 °C, 3.75 A @ 70 °C
Capacitive load	unrestricted
Protection against inverse voltage	Yes
Signalling	
Indication	LED green ($U_{output} > 21.6$ V DC), LED yellow ($I_{output} > 90\% I_{Rated}$ typ.), LED red (overload, overtemperature, short-circuit, $U_{output} < 20.4$ V DC)
Floating contact / Contact load	Yes / max. 30 V DC / 1 A
Relay on/off	Output voltage > 21.6 V DC / < 20.4 V DC, Overload
General data	
Degree of efficiency	92 %
Power loss idling / nominal load / Power loss, nominal load	5 W / 50 W
Earth leakage current, max.	3.5 mA
Power factor (approx.)	> 0.94 @ 230 V AC / > 0.99 @ 115 V AC
AC failure bridging time @ I_{Nenn}	> 20 ms @ 230 V AC / > 20 ms @ 115 V AC
Parallel connection option	yes, max. 5
Depth x width x height / Net weight	100 / 60 / 125 mm / 996 g
Approvals	
Approvals	CE; cULus; EAC

Connection data	
Connection system	Screw connection
Number of terminals	3 for L/N/PE
Wire cross-section, rigid min/max	0.5 / 6 mm ²
Wire cross-section, flexible min/max	0.5 / 2.5 mm ²
Wire cross-section, AWG/kcmil min/max	26 / 12
Tightening torque range	0.5 / 0.6
Note	

Ordering data

Type	Qty.	Order No.
PRO ECO 240W 48V 5A	1	1469590000
Note		
The internal varistor found in a switch-mode power supply does not replace the need for surge protection within a system.		

Input		Output	
Screw connection		Screw connection	
3 for L/N/PE		6 (+, -, 13, 14)	
0.5 / 6		0.5 / 6	
0.5 / 2.5		0.5 / 2.5	
26 / 12		26 / 12	
		0.5 / 0.6	

Type	Qty.	Order No.
PRO ECO 240W 48V 5A	1	1469590000

Input		Output	
Screw connection		Screw connection	
3 for L/N/PE		7 (+, -, 13, 14)	
0.5 / 6		0.5 / 6	
0.5 / 2.5		0.22 / 4	
26 / 12		26 / 10	
		0.5 / 0.6	

Type	Qty.	Order No.
PRO ECO 480W 48V 10A	1	1469610000

The internal varistor found in a switch-mode power supply does not replace the need for surge protection within a system.

connectPower PROeco

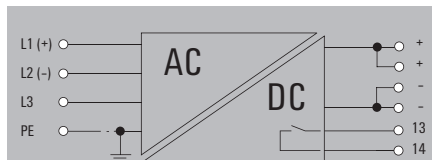
connectPower PROeco



PRO EC03 120W 24V 5A



Similar to illustration

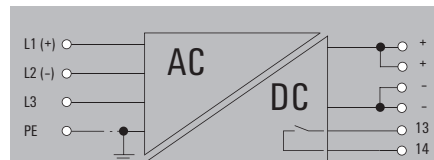


Pay attention to polarity of DC connection

PRO EC03 240W 24V 10A



Similar to illustration



Pay attention to polarity of DC connection

Technical data

Input					
Rated input voltage		3 x 400...3 x 500 V AC (wide-range input)		3 x 400...3 x 500 V AC (wide-range input)	
Input voltage range AC		3 x 320...3 x 575 V AC / 2 x 360...2 x 575 V AC		3 x 320...3 x 575 V AC / 2 x 360...2 x 575 V AC	
Frequency range AC		47...63 Hz		47...63 Hz	
DC input voltage range		450...800 V DC (max. 500 V DC acc. to UL508)		450...800 V DC (max. 500 V DC acc. to UL508)	
AC current consumption		0.3 A @ 3 x 500 V AC / 0.4 A @ 3 x 400 V AC		0.6 A @ 3 x 500 V AC / 0.8 A @ 3 x 400 V AC	
DC current consumption		0.2 A @ 800 V DC / 0.4 A @ 450 V DC		0.4 A @ 800 V DC / 0.7 A @ 450 V DC	
Input fuse (internal) / Inrush current		Yes / max. 40 A		Yes / max. 50 A	
Recommended back-up fuse		2 A / DI, safety fuse		2 A / DI, safety fuse	
		2...3 A, Char. C, circuit breaker		2...3 A, Char. C, circuit breaker	
Output					
Rated output voltage		24 V DC $\pm$ 1 %		24 V DC $\pm$ 1 %	
Output voltage		22...28 V (adjustable via potentiometer)		22...28 V (adjustable via potentiometer)	
Ramp-up time / Residual ripple, breaking spikes		$\leq$ 100 ms / $<$ 50 mV _{SS} @ 24 V DC, I _N		$\leq$ 100 ms / $<$ 50 mV _{SS} @ 24 V DC, I _N	
Rated (nominal) output current @ U _{Nom}		5 A at 55 °C		10 A @ 55 °C	
Continuous output current @ U _{Rated}		5 A @ 55 °C, 3.75 A @ 70 °C		10 A @ 55 °C, 7.5 A @ 70 °C	
Capacitive load		unrestricted		unrestricted	
Protection against inverse voltage		Yes		Yes	
Signalling					
Indication		LED green (U _{output} > 21.6 V DC), LED yellow (I _{output} > 90% I _{Rated} typ.), LED red (overload, overtemperature, short-circuit, U _{output} < 20.4 V DC)		LED green (U _{output} > 21.6 V DC), LED yellow (I _{output} > 90% I _{Rated} typ.), LED red (overload, overtemperature, short-circuit, U _{output} < 20.4 V DC)	
Floating contact / Contact load		Yes / max. 30 V DC / 1 A		Yes / max. 30 V DC / 1 A	
Relay on/off		Output voltage >21.6 V DC / <20.4 V DC, Overload		Output voltage >21.6 V DC / <20.4 V DC, Overload	
General data					
Degree of efficiency		87 %		88 %	
Power loss idling / nominal load / Power loss, nominal load		6 W / 13 W		6 W / 24 W	
Earth leakage current, max.		3.5 mA		3.5 mA	
Power factor (approx.)		> 0.55 @ 3 x 500 V AC / > 0.65 @ 3 x 400 V AC		> 0.55 @ 3 x 500 V AC / > 0.65 @ 3 x 400 V AC	
AC failure bridging time @ I _{Nom}		> 40 ms @ 3 x 500 V AC / > 20 ms @ 3 x 400 V AC		> 40 ms @ 3 x 500 V AC / > 20 ms @ 3 x 400 V AC	
Parallel connection option		yes, max. 5		yes, max. 5	
Depth x width x height / Net weight		100 / 40 / 125 mm / 705 g		100 / 60 / 125 mm / 962 g	
Approvals					
Approvals		CE; cULus; EAC; TUEV		CE; cULus; EAC; TUEV	
Connection data		Input	Output	Input	Output
Connection system		Screw connection	Screw connection	Screw connection	Screw connection
Number of terminals		4 for L1/L2/L3/PE	6 (+, -, 13, 14)	4 for L1/L2/L3/PE	6 (+, -, 13, 14)
Wire cross-section, rigid min/max	mm ²	0.5 / 6	0.5 / 6	0.5 / 6	0.5 / 6
Wire cross-section, flexible min/max	mm ²	0.5 / 2.5	0.5 / 2.5	0.5 / 2.5	0.5 / 2.5
Wire cross-section, AWG/kcmil min/max		26 / 12	26 / 12	26 / 12	26 / 12
Tightening torque range			0.5 / 0.6		0.5 / 0.6
Note					

Ordering data

Type	Qty.	Order No.	Type	Qty.	Order No.
PRO EC03 120W 24V 5A	1	1469530000	PRO EC03 240W 24V 10A	1	1469540000

Note	
The internal varistor found in a switch-mode power supply does not replace the need for surge protection within a system.	The internal varistor found in a switch-mode power supply does not replace the need for surge protection within a system.

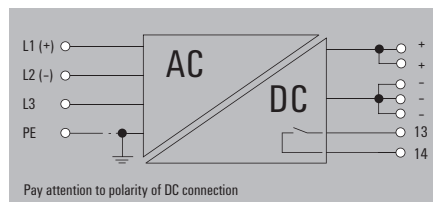
connectPower PROeco



PRO EC03 480W 24V 20A



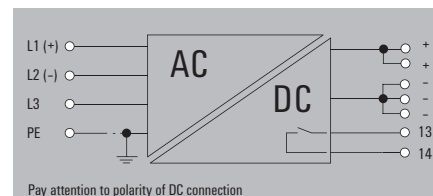
Similar to illustration



PRO EC03 960W 24V 40A



Similar to illustration



Technical data

Input
Rated input voltage
Input voltage range AC
Frequency range AC
DC input voltage range
AC current consumption
DC current consumption
Input fuse (internal) / Inrush current
Recommended back-up fuse

3 x 400...3 x 500 V AC (wide-range input)
3 x 320...3 x 575 V AC / 2 x 360...2 x 575 V AC
47...63 Hz
450...800 V DC (max. 500 V DC acc. to UL508)
1.2 A @ 3 x 500 V AC / 1.5 A @ 3 x 400 V AC
0.7 A @ 800 V DC / 1.2 A @ 450 V DC
Yes / max. 50 A
4 A / DI, safety fuse
3...5 A, Char. C, circuit breaker

3 x 400...3 x 500 V AC (wide-range input)
3 x 320...3 x 575 V AC / 2 x 360...2 x 575 V AC
47...63 Hz
450...800 V DC (max. 500 V DC acc. to UL508)
2.15 A @ 3 x 500 V AC / 2.68 A @ 3 x 400 V AC
1.37 A @ 800 V DC / 2.37 A @ 450 V DC
Yes / max. 40 A
6 A / DI, safety fuse
10 A, Char. B, circuit breaker
6...8 A, Char. C, circuit breaker

Output
Rated output voltage
Output voltage
Ramp-up time / Residual ripple, breaking spikes
Rated (nominal) output current @ U_{Nom}
Continuous output current @ U_{Rated}
Capacitive load
Protection against inverse voltage

24 V DC $\pm$ 1 %
22...28 V (adjustable via potentiometer)
≤ 100 ms / < 50 mV _{SS} @ 24 V DC, I_{H_1}
20 A @ 55 °C
20 A @ 55 °C, 15 A @ 70 °C
unrestricted
Yes

24 V DC $\pm$ 1 %
22...28 V (adjustable via potentiometer)
≤ 100 ms / < 50 mV _{SS} @ 24 V DC, I_{H_1}
40 A @ 50 °C
40 A @ 50 °C, 24 A @ 70 °C
unrestricted
Yes

Signalling
Indication

LED green ($U_{output} > 21.6$ V DC), LED yellow ($I_{output} > 90\% I_{Rated}$ typ.), LED red (overload, overtemperature, short-circuit, $U_{output} < 20.4$ V DC)
Yes / max. 30 V DC / 1 A
Output voltage > 21.6 V DC / < 20.4 V DC, Overload

LED green ($U_{output} > 21.6$ V DC), LED yellow ($I_{output} > 90\% I_{Rated}$ typ.), LED red (overload, overtemperature, short-circuit, $U_{output} < 20.4$ V DC)
Yes / max. 30 V DC / 1 A
Output voltage > 21.6 V DC / < 20.4 V DC, Overload

General data
Degree of efficiency
Power loss idling / nominal load / Power loss, nominal load
Earth leakage current, max.
Power factor (approx.)
AC failure bridging time @ I_{Nom}
Parallel connection option
Depth x width x height / Net weight

89%
8 W / 48 W
3.5 mA
> 0.55 @ 3 x 500 V AC / > 0.65 @ 3 x 400 V AC
> 30 ms @ 3 x 500 V AC / > 20 ms @ 3 x 400 V AC
yes, max. 3
120 / 100 / 125 mm / 1490 g

90%
5 W / 95 W
3.5 mA
> 0.55 @ 3 x 500 V AC / > 0.65 @ 3 x 400 V AC
> 25 ms @ 3 x 500 V AC / > 20 ms @ 3 x 400 V AC
yes, max. 3
120 / 160 / 125 mm / 2899 g

Approvals
Approvals

CE; cULus; EAC; TUEV

CE; cULus; EAC; TUEV

Connection data
Connection system
Number of terminals
Wire cross-section, rigid min/max
Wire cross-section, flexible min/max
Wire cross-section, AWG/kcmil min/max
Tightening torque range

Input	Output
Screw connection	Screw connection
4 for L1/L2/L3/PE	7 (+, -, 13, 14)
0.5 / 6	0.5 / 6
0.5 / 2.5	0.5 / 2.5
26 / 12	26 / 10
	0.5 / 0.6

Input	Output
Screw connection	Screw connection
4 for L1/L2/L3/PE	7 (+, -, 13, 14)
0.5 / 6	0.5 / 16
0.5 / 2.5	2.5 / 10
26 / 12	22 / 8
	0.5 / 0.6

Note

Ordering data

Type	Qty.	Order No.
------	------	-----------

Type	Qty.	Order No.
PRO EC03 480W 24V 20A	1	1469550000

Type	Qty.	Order No.
PRO EC03 960W 24V 40A	1	1469560000

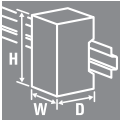
Note

The internal varistor found in a switch-mode power supply does not replace the need for surge protection within a system.

The internal varistor found in a switch-mode power supply does not replace the need for surge protection within a system.

connectPower PROeco

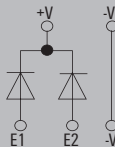
connectPower PROeco diode module



Technical data

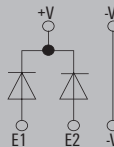
Input	
DC input voltage range	
DC current consumption	
Output	
Rated output voltage	
Continuous output current @ U_{Rated}	
General data	
Ambient temperature (operational)	
Storage temperature	
Derating	
Degree of efficiency	
Mounting position, installation notice	
Depth x width x height / Net weight	
Approvals	

PRO DM 10



Input	
DC input voltage range	0...60 V DC
DC current consumption	2 × 12 A (-40 °C ~ +45 °C), 2 × 10 A (+45 °C ~ +60 °C), 2 × 7.5 A (+70 °C)
Output	
Rated output voltage	24 V DC ± 1 %
Continuous output current @ U_{Rated}	1 × 24 A (-40 °C ~ +45 °C), 1 × 20 A (+45 °C ~ +60 °C), 1 × 15 A (+70 °C)
General data	
Ambient temperature (operational)	-40 °C...70 °C
Storage temperature	-40 °C...85 °C
Derating	> 60 °C / 75% load @ 70 °C
Degree of efficiency	> 97% @ 24 V input voltage
Mounting position, installation notice	Horizontal on TS35 mounting rail. 50 mm of clearance at top & bottom for air circ. Can mount side by side with no space in between.
Depth x width x height / Net weight	125 / 32 / 125 mm / 518 g

PRO DM 20



Input	
DC input voltage range	0...60 V DC
DC current consumption	2 × 24 A (-40 °C ~ +45 °C), 2 × 20 A (+40 °C ~ +60 °C), 2 × 15 A (+70 °C)
Output	
Rated output voltage	24 V DC ± 1 %
Continuous output current @ U_{Rated}	1 × 48 A (-40 °C ~ +45 °C), 1 × 40 A (+45 °C ~ +60 °C), 1 × 30 A (+70 °C)
General data	
Ambient temperature (operational)	-40 °C...70 °C
Storage temperature	-40 °C...85 °C
Derating	> 60 °C / 75% load @ 70 °C
Degree of efficiency	> 97% @ 24 V input voltage
Mounting position, installation notice	Horizontal on TS35 mounting rail. 50 mm of clearance at top & bottom for air circ. Can mount side by side with no space in between.
Depth x width x height / Net weight	125 / 32 / 125 mm / 568 g

Connection data	
Connection system	
Number of terminals	
Wire cross-section, rigid min/max	mm ²
Wire cross-section, flexible min/max	mm ²
Wire cross-section, AWG/kcmil min/max	
Tightening torque range	
Note	

Ordering data

Type	Qty.	Order No.
PRO DM 10	1	2486070000
Note		

Input		Output	
Connection system		Connection system	
Number of terminals		Number of terminals	
Wire cross-section, rigid min/max	mm ²	Wire cross-section, rigid min/max	mm ²
Wire cross-section, flexible min/max	mm ²	Wire cross-section, flexible min/max	mm ²
Wire cross-section, AWG/kcmil min/max		Wire cross-section, AWG/kcmil min/max	
Tightening torque range		Tightening torque range	
Note		Note	

Input		Output	
Connection system		Connection system	
Number of terminals		Number of terminals	
Wire cross-section, rigid min/max	mm ²	Wire cross-section, rigid min/max	mm ²
Wire cross-section, flexible min/max	mm ²	Wire cross-section, flexible min/max	mm ²
Wire cross-section, AWG/kcmil min/max		Wire cross-section, AWG/kcmil min/max	
Tightening torque range		Tightening torque range	
Note		Note	

Type	Qty.	Order No.
PRO DM 10	1	2486070000
Note		

Type	Qty.	Order No.
PRO DM 20	1	2486080000
Note		

Small metal foot



Type	Order No.
MTA 30 MF	1251320000

Large metal foot



Type	Order No.
MTA 45 MF	1251310000

Small plastic foot



Type	Order No.
MTA 30 BK	1168970000

Large plastic foot



Type	Order No.
MTA 45 BK	1962250000

Small wall mounting



Type	Order No.
CP A WALLADAPTER 30 MM	1461870000

Large wall mounting



Type	Order No.
CP A WALLADAPTER 45 MM	1461850000

Small screwdriver



Type	Blade type	Size/AF	a	b	c	Order No.
SDIK PH1		1.00			80	9008570000
SDIS 0.5X3.0X100	B		0.5	3	100	9008380000

Markers



Type	Colour	Qty.	Order No.
SM 18/9.5 K MC NE WS	white	200	1248580000

End bracket

For DIN rail TS 35



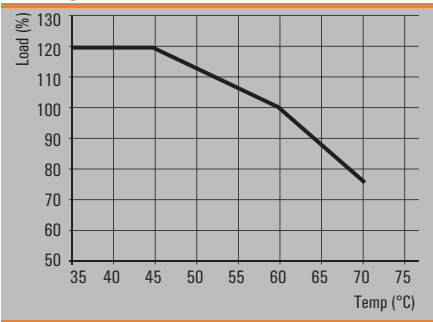
Polyamide with fibre glass, screwable	Colour	Torque	Qty.	Order No.
WEW 35/1 SW	black	1.2 Nm	50	1162600000

connectPower PROmax

connectPower
PROmax



Derating curve



Permitted continuous limit currents [A]

Typ\Temp.	45 °C	50 °C	55 °C	60 °C	65 °C	70 °C
1ph 24 V / 3 A	3,6	3,3	3,2	3	2,6	2,2
1ph 24 V / 5 A	6	5,7	5,4	5	4,4	3,8
1ph 24 V / 7,5 A	9	8,5	8	7,5	6,6	5,6
1ph 24 V / 10 A	12	11,3	10,7	10	8,8	7,5
1ph 24 V / 20 A	24	22,6	21,4	20	17,6	15
1ph 24 V / 40 A	48	45,2	42,8	40	35,2	30
1ph 5 V / 14 A	16,8	15,8	15	14	12,3	10,5
1ph 12 V / 6 A	7,2	6,8	6,4	6	5,3	4,5
1ph 12 V / 10 A	12	11,3	10,7	10	8,8	7,5
1ph 48 V / 5 A	6	5,7	5,4	5	4,4	3,8
1ph 48 V / 10 A	12	11,3	10,7	10	8,8	7,5
1ph 48 V / 20 A	24	22,6	21,4	20	17,6	15
3ph 24 V / 5 A	6	5,7	5,4	5	4,4	3,8
3ph 24 V / 10 A	12	11,3	10,7	10	8,8	7,5
3ph 24 V / 20 A	24	22,6	21,4	20	17,6	15
3ph 24 V / 40 A	48	45,2	42,8	40	35,2	30

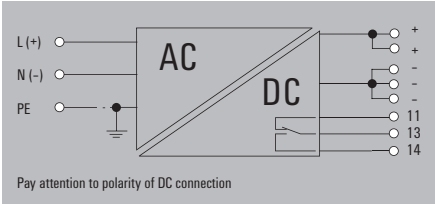
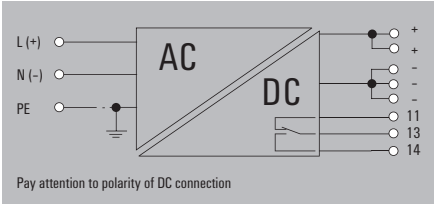
Technical data

General data	
Current limiting	> 120 % I _N
Insulation voltage input / earth	3.5
Insulation voltage output / earth	0.5
Insulation voltage, input/output	4
Earth leakage current, max.	3.5
Series switching capability	Yes
Ambient temperature (operational) / Storage temperature / Start-up	-25 °C...70 °C / -40 °C...85 °C / ≥ -40 °C
Humidity at operating temperature	5...95 %, no condensation
Class of protection / Pollution degree	I, with PE connection / 2
MTBF	
Housing version	Metal, corrosion resistant
Status indication	LED red/green and relay (≥21.6 V DC LED green, relay on/ ≤20.6 V DC LED red, relay off)
Mounting position, installation notice	Horizontal on TS35 mounting rail. 50 mm of clearance at top & bottom for air circ. Can mount side by side with no space in between.
EMC / shock / vibration	
Interference immunity test acc. to	EN 55024, EN 55022, IEC61000-3-2;3, IEC61000-4-2,-3,-4,-5,-6,-8,-11
Shock	30 g in all directions
Resistance to vibration	2.3 g
Electrical safety (applied standards)	
Electrical machine equipment	Acc. to EN60204
Safety transformers for switch-mode power supplies	IEC61558-2-16
For use with electronic equipment	Acc. to EN50178 / VDE0160
Safety extra-low voltage	SELV acc. to EN60950, PELV acc. to EN60204, IEC61204
Protective separation / protection against electrical shock	VDE0100-410 / acc. to DIN57100-410
Protection against dangerous shock currents	Acc. to VDE0106-101

connectPower PROmax

PRO MAX 72W 24V 3A

PRO MAX 120W 24V 5A



Technical data

Input	
Rated input voltage	100...240 V AC (wide-range input)
Input voltage range AC	85...277 V AC
Frequency range AC	45...65 Hz
DC input voltage range	80...370 V DC
AC current consumption	1 A @ 230 V AC / 1.5 A @ 115 V AC
DC current consumption	1A @ 370 VDC / 1.5A @ 120 VDC
Input fuse (internal) / Inrush current	Yes / max. 15 A
Recommended back-up fuse	6 A, Char. B, circuit breaker, 3 - 5 A Char. C, circuit breaker
Output	
Rated output voltage	24 V DC $\pm$ 1 %
Output voltage	22.5...29.5 V (adjustable via potentiometer)
Residual ripple, breaking spikes	< 50 mVss @ U_{NOM} , Full Load
Rated (nominal) output current @ U_{NOM}	3 A @ 60 °C
Continuous output current @ U_{Rated}	3,6 A @ 45°C, 2,25 A @ 70°C
Leitungsreserve @ U_{Rated}	3,6 A (1 min), 4,5 A (4s)
Pulsed current capacity @ U_{Rated}	9 A (2ms)
General data	
Degree of efficiency	89%
Power factor (approx.)	> 0.90 @ 230 V AC
AC failure bridging time @ I_{NOM}	min. 20 ms
Protection against reverse voltages from the load	30...35 V DC
Parallel connection option	yes, max. 5
Depth x width x height	125 / 32 / 130 mm
Net weight	650 g
Approvals	
Approvals	CE; cULus; cULusEX; cURus; EAC; GL; TUEV

Input	
Rated input voltage	100...240 V AC (wide-range input)
Input voltage range AC	85...277 V AC
Frequency range AC	45...65 Hz
DC input voltage range	80...370 V DC
AC current consumption	1A @ 230 VAC / 2,5A @ 115 VAC
DC current consumption	1,5A @ 370 VDC / 2,5A @ 120 VDC
Input fuse (internal) / Inrush current	Yes / max. 15 A
Recommended back-up fuse	6 A, Char. B, circuit breaker, 6 A, char. C circuit breaker
Output	
Rated output voltage	24 V DC $\pm$ 1 %
Output voltage	22.5...29.5 V (adjustable via potentiometer)
Residual ripple, breaking spikes	< 50 mVss @ U_{NOM} , Full Load
Rated (nominal) output current @ U_{NOM}	5 A @ 60 °C
Continuous output current @ U_{Rated}	6,0 A @ 45 °C, 3,75 A @ 70 °C
Leitungsreserve @ U_{Rated}	6 A (1 min), 7,5 A (4s)
Pulsed current capacity @ U_{Rated}	15 A (2ms)
General data	
Degree of efficiency	89%
Power factor (approx.)	> 0.90 @ 230 V AC
AC failure bridging time @ I_{NOM}	min. 20 ms
Protection against reverse voltages from the load	30...35 V DC
Parallel connection option	yes, max. 5
Depth x width x height	125 / 40 / 130 mm
Net weight	859 g
Approvals	
Approvals	CE; cULus; cULusEX; cURus; EAC; GL; TUEV

Input	
Rated input voltage	100...240 V AC (wide-range input)
Input voltage range AC	85...277 V AC
Frequency range AC	45...65 Hz
DC input voltage range	80...370 V DC
AC current consumption	1A @ 230 VAC / 2,5A @ 115 VAC
DC current consumption	1,5A @ 370 VDC / 2,5A @ 120 VDC
Input fuse (internal) / Inrush current	Yes / max. 15 A
Recommended back-up fuse	6 A, Char. B, circuit breaker, 6 A, char. C circuit breaker
Output	
Rated output voltage	24 V DC $\pm$ 1 %
Output voltage	22.5...29.5 V (adjustable via potentiometer)
Residual ripple, breaking spikes	< 50 mVss @ U_{NOM} , Full Load
Rated (nominal) output current @ U_{NOM}	5 A @ 60 °C
Continuous output current @ U_{Rated}	6,0 A @ 45 °C, 3,75 A @ 70 °C
Leitungsreserve @ U_{Rated}	6 A (1 min), 7,5 A (4s)
Pulsed current capacity @ U_{Rated}	15 A (2ms)
General data	
Degree of efficiency	89%
Power factor (approx.)	> 0.90 @ 230 V AC
AC failure bridging time @ I_{NOM}	min. 20 ms
Protection against reverse voltages from the load	30...35 V DC
Parallel connection option	yes, max. 5
Depth x width x height	125 / 40 / 130 mm
Net weight	859 g
Approvals	
Approvals	CE; cULus; cULusEX; cURus; EAC; GL; TUEV

Connection data	
Connection system	Screw connection
Number of terminals	3 for L/N/PE
Wire cross-section, rigid min/max	0.18 / 6
Wire cross-section, flexible min/max	0.22 / 4
Wire cross-section, AWG/kcmil min/max	26 / 10
Screwdriver blade	0.8 x 4.0, PZ 1
Note	

Input	Output
Screw connection	Screw connection
3 for L/N/PE	8 (+, -, 11, 13, 14)
0.18 / 6	0.5 / 6
0.22 / 4	0.5 / 4
26 / 10	26 / 12
0.8 x 4.0, PZ 1	0.6 x 3.5

Input	Output
Screw connection	Screw connection
3 for L/N/PE	8 (+, -, 11, 13, 14)
0.18 / 6	0.5 / 6
0.22 / 4	0.5 / 4
26 / 10	26 / 12
0.8 x 4.0, PZ 1	0.6 x 3.5

Ordering data

Type	Qty.	Order No.
------	------	-----------

Type	Qty.	Order No.
PRO MAX 72W 24V 3A	1	1478100000

Type	Qty.	Order No.
PRO MAX 120W 24V 5A	1	1478110000

Note

The internal varistor found in a switch-mode power supply does not replace the need for surge protection within a system.

The internal varistor found in a switch-mode power supply does not replace the need for surge protection within a system.

Accessories

Note

Note

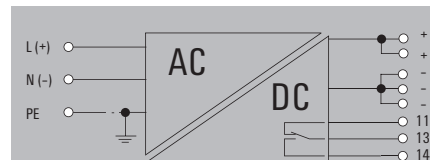
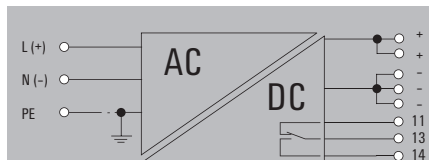
Note

connectPower PROmax

connectPower PROmax

PRO MAX 180W 24V 7,5A

PRO MAX 240W 24V 10A



Technical data

Input	
Rated input voltage	100...240 V AC (wide-range input)
Input voltage range AC	85...277 V AC
Frequency range AC	45...65 Hz
DC input voltage range	80...370 V DC
AC current consumption	1 A @ 230 V AC / 2 A @ 115 V AC
DC current consumption	1A @ 370 VDC / 2A @ 120 VDC
Input fuse (internal) / Inrush current	Yes / max. 15 A
Recommended back-up fuse	10 A, char. B circuit breaker, 6...8 A, char. C circuit breaker
Output	
Rated output voltage	24 V DC $\pm$ 1 %
Output voltage	22.5...29.5 V (adjustable via potentiometer)
Residual ripple, breaking spikes	< 50 mVss @ U_{NOM} , Full Load
Rated (nominal) output current @ U_{NOM}	7,5 A @ 60 °C
Continuous output current @ U_{Rated}	9 A @ 45°C, 5,6 A @ 70°C
Leitungsreserve @ U_{Rated}	9 A (1 min), 11.25 A (4s)
Pulsed current capacity @ U_{Rated}	22,5 A (2ms)
General data	
Degree of efficiency	91.5%
Power factor (approx.)	> 0.95 @ 230 V AC
AC failure bridging time @ I_{NOM}	min. 20 ms
Protection against reverse voltages from the load	30...35 V DC
Parallel connection option	yes, max. 5
Depth x width x height	125 / 50 / 130 mm
Net weight	950 g
Approvals	
Approvals	CE; cULus; cULusEX; cURus; EAC; GL; TUEV

Input		Output	
Rated input voltage	100...240 V AC (wide-range input)	Rated output voltage	24 V DC $\pm$ 1 %
Input voltage range AC	85...277 V AC	Output voltage	22.5...29.5 V (adjustable via potentiometer)
Frequency range AC	45...65 Hz	Residual ripple, breaking spikes	< 50 mVss @ U_{NOM} , Full Load
DC input voltage range	80...370 V DC	Rated (nominal) output current @ U_{NOM}	7,5 A @ 60 °C
AC current consumption	1 A @ 230 V AC / 2 A @ 115 V AC	Continuous output current @ U_{Rated}	9 A @ 45°C, 5,6 A @ 70°C
DC current consumption	1A @ 370 VDC / 2A @ 120 VDC	Leitungsreserve @ U_{Rated}	9 A (1 min), 11.25 A (4s)
Input fuse (internal) / Inrush current	Yes / max. 15 A	Pulsed current capacity @ U_{Rated}	22,5 A (2ms)
Recommended back-up fuse	10 A, char. B circuit breaker, 6...8 A, char. C circuit breaker	Degree of efficiency	91.5%
		Power factor (approx.)	> 0.95 @ 230 V AC
		AC failure bridging time @ I_{NOM}	min. 20 ms
		Protection against reverse voltages from the load	30...35 V DC
		Parallel connection option	yes, max. 5
		Depth x width x height	125 / 50 / 130 mm
		Net weight	950 g
		Approvals	CE; cULus; cULusEX; cURus; EAC; GL; TUEV

Input		Output	
Rated input voltage	100...240 V AC (wide-range input)	Rated output voltage	24 V DC $\pm$ 1 %
Input voltage range AC	85...277 V AC	Output voltage	22.5...29.5 V (adjustable via potentiometer)
Frequency range AC	45...65 Hz	Residual ripple, breaking spikes	< 50 mVss @ U_{NOM} , Full Load
DC input voltage range	80...370 V DC	Rated (nominal) output current @ U_{NOM}	10 A @ 60 °C
AC current consumption	1.5 A @ 230 V AC / 3 A @ 115 V AC	Continuous output current @ U_{Rated}	12 A @ 45°C, 7,5 A @ 70°C
DC current consumption	1,5A @ 370 VDC / 3A @ 120 VDC	Leitungsreserve @ U_{Rated}	12 A (1 min), 15 A (4s)
Input fuse (internal) / Inrush current	Yes / max. 15 A	Pulsed current capacity @ U_{Rated}	30 A (2ms)
Recommended back-up fuse	10 A, char. B circuit breaker, 6...8 A, char. C circuit breaker	Degree of efficiency	91.5%
		Power factor (approx.)	> 0.95 @ 230 V AC
		AC failure bridging time @ I_{NOM}	min. 20 ms
		Protection against reverse voltages from the load	30...35 V DC
		Parallel connection option	yes, max. 5
		Depth x width x height	125 / 60 / 130 mm
		Net weight	1050 g
		Approvals	CE; cULus; cULusEX; cURus; EAC; GL; TUEV

Connection data	
Connection system	
Number of terminals	
Wire cross-section, rigid min/max	mm ²
Wire cross-section, flexible min/max	mm ²
Wire cross-section, AWG/kcmil min/max	
Screwdriver blade	
Note	

Input	Output
Screw connection	Screw connection
3 for L/N/PE	8 (++,--,11,13,14)
0.18 / 6	0.5 / 6
0.22 / 4	0.5 / 4
26 / 10	26 / 12
0.8 x 4.0, PZ 1	0.6 x 3.5

Input	Output
Screw connection	Screw connection
3 for L/N/PE	8 (++,--,11,13,14)
0.18 / 6	0.18 / 6
0.22 / 4	0.22 / 4
26 / 10	26 / 10
0.8 x 4.0, PZ 1	0.8 x 4.0, PZ 1

Ordering data

Type	Qty.	Order No.
------	------	-----------

Type	Qty.	Order No.
PRO MAX 180W 24V 7,5A	1	1478120000

Type	Qty.	Order No.
PRO MAX 240W 24V 10A	1	1478130000

Note

Note
The internal varistor found in a switch-mode power supply does not replace the need for surge protection within a system.

Note
The internal varistor found in a switch-mode power supply does not replace the need for surge protection within a system.

Accessories

Note

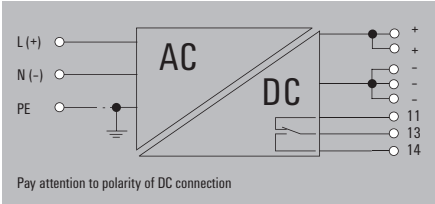
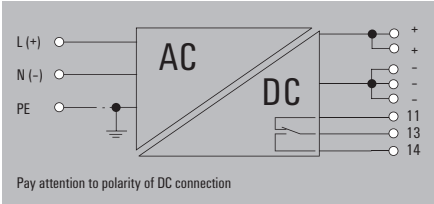
Note

Note

connectPower PROmax

PRO MAX 480W 24V 20A

PRO MAX 960W 24V 40A



Technical data

Input	
Rated input voltage	100...240 V AC (wide-range input)
Input voltage range AC	85...277 V AC
Frequency range AC	45...65 Hz
DC input voltage range	80...370 V DC
AC current consumption	2,3A @ 230 VAC / 4,8A @ 115 VAC
DC current consumption	1,5A @ 370 VDC / 4,8A @ 120 VDC
Input fuse (internal) / Inrush current	Yes / max. 15 A
Recommended back-up fuse	16 A, Char. B circuit breaker, 10 A, char. C circuit breaker
Output	
Rated output voltage	24 V DC $\pm$ 1 %
Output voltage	22.5...29.5 V (adjustable via potentiometer)
Residual ripple, breaking spikes	< 50 mVss @ U_{NOM} , Full Load
Rated (nominal) output current @ U_{NOM}	20 A @ 60 °C
Continuous output current @ U_{Rated}	24 A @ 45°C, 15 A @ 70°C
Leitungsreserve @ U_{Rated}	24 A (1 min), 30 A (4s), 100...240 V AC
Pulsed current capacity @ U_{Rated}	60 A (2ms)
General data	
Degree of efficiency	92 %
Power factor (approx.)	> 0.95 @ 230 V AC
AC failure bridging time @ I_{NOM}	min. 20 ms
Protection against reverse voltages from the load	30...35 V DC
Parallel connection option	yes, max. 3
Depth x width x height	150 / 90 / 130 mm
Net weight	2000 g
Approvals	
Approvals	CE; cULus; cULusEX; cURus; EAC; GL; TUEV

Input	
Rated input voltage	100...240 V AC (wide-range input)
Input voltage range AC	85...277 V AC
Frequency range AC	45...65 Hz
DC input voltage range	80...370 V DC
AC current consumption	4,52A @ 230 VAC / 10A @ 115 VAC
DC current consumption	2,8A @ 370 VDC / 10A @ 120 VDC
Input fuse (internal) / Inrush current	Yes / max. 15 A
Recommended back-up fuse	20 A, char. B circuit breaker, 16 A, Char. C circuit breaker
Output	
Rated output voltage	24 V DC $\pm$ 1 %
Output voltage	22.5...29.5 V (adjustable via potentiometer)
Residual ripple, breaking spikes	< 50 mVss @ U_{NOM} , Full Load
Rated (nominal) output current @ U_{NOM}	40 A @ 60 °C
Continuous output current @ U_{Rated}	48 A @ 45°C, 30 A @ 70°C
Leitungsreserve @ U_{Rated}	48 A (1 min), 60 A (4s), 100...240 V AC
Pulsed current capacity @ U_{Rated}	120 A (2ms)
General data	
Degree of efficiency	93%
Power factor (approx.)	> 0.95 @ 230 V AC
AC failure bridging time @ I_{NOM}	min. 20 ms
Protection against reverse voltages from the load	30...35 V DC
Parallel connection option	yes, max. 3
Depth x width x height	150 / 140 / 130 mm
Net weight	3900 g
Approvals	
Approvals	CE; cULus; cULusEX; cURus; EAC; GL; TUEV

Input	
Rated input voltage	100...240 V AC (wide-range input)
Input voltage range AC	85...277 V AC
Frequency range AC	45...65 Hz
DC input voltage range	80...370 V DC
AC current consumption	4,52A @ 230 VAC / 10A @ 115 VAC
DC current consumption	2,8A @ 370 VDC / 10A @ 120 VDC
Input fuse (internal) / Inrush current	Yes / max. 15 A
Recommended back-up fuse	20 A, char. B circuit breaker, 16 A, Char. C circuit breaker
Output	
Rated output voltage	24 V DC $\pm$ 1 %
Output voltage	22.5...29.5 V (adjustable via potentiometer)
Residual ripple, breaking spikes	< 50 mVss @ U_{NOM} , Full Load
Rated (nominal) output current @ U_{NOM}	40 A @ 60 °C
Continuous output current @ U_{Rated}	48 A @ 45°C, 30 A @ 70°C
Leitungsreserve @ U_{Rated}	48 A (1 min), 60 A (4s), 100...240 V AC
Pulsed current capacity @ U_{Rated}	120 A (2ms)
General data	
Degree of efficiency	93%
Power factor (approx.)	> 0.95 @ 230 V AC
AC failure bridging time @ I_{NOM}	min. 20 ms
Protection against reverse voltages from the load	30...35 V DC
Parallel connection option	yes, max. 3
Depth x width x height	150 / 140 / 130 mm
Net weight	3900 g
Approvals	
Approvals	CE; cULus; cULusEX; cURus; EAC; GL; TUEV

Connection data	
Connection system	Screw connection
Number of terminals	3 for L/N/PE
Wire cross-section, rigid min/max	0.18 / 6
Wire cross-section, flexible min/max	0.22 / 4
Wire cross-section, AWG/kcmil min/max	26 / 10
Screwdriver blade	0.8 x 4.0, PZ 1
Note	

Input	Output
Screw connection	Screw connection
3 for L/N/PE	8 (+,-,11,13,14)
0.18 / 6	0.18 / 6
0.22 / 4	0.22 / 4
26 / 10	26 / 10
0.8 x 4.0, PZ 1	0.8 x 4.0, PZ 1

Input	Output
Screw connection	Screw connection
3 for L/N/PE	8 (+,-,11,13,14)
0.18 / 6	0.5 / 16
0.22 / 4	0.5 / 16
26 / 10	22 / 8
0.8 x 4.0, PZ 1	1.0 x 5.5

Ordering data

Type	Qty.	Order No.
PRO MAX 480W 24V 20A	1	1478140000

Type	Qty.	Order No.
PRO MAX 480W 24V 20A	1	1478140000

Type	Qty.	Order No.
PRO MAX 960W 24V 40A	1	1478150000

Note
The internal varistor found in a switch-mode power supply does not replace the need for surge protection within a system.

Note
The internal varistor found in a switch-mode power supply does not replace the need for surge protection within a system.

Note
The internal varistor found in a switch-mode power supply does not replace the need for surge protection within a system.

Accessories

Note

Note

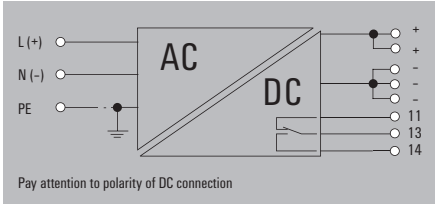
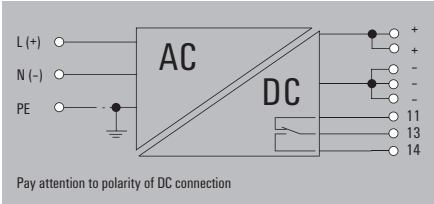
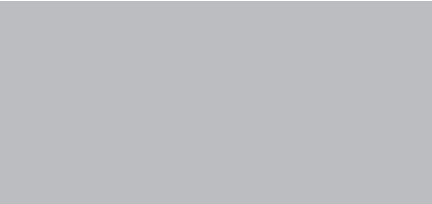
Note

connectPower PROmax

connectPower PROmax

PRO MAX 70W 5V 14A

PRO MAX 72W 12V 6A



Technical data

Input	
Rated input voltage	100...240 V AC (wide-range input)
Input voltage range AC	85...277 V AC
Frequency range AC	45...65 Hz
DC input voltage range	80...370 V DC
AC current consumption	1 A @ 230 V AC / 1.5 A @ 115 V AC
DC current consumption	1A @ 370 VDC / 1,5A @ 120 VDC
Input fuse (internal) / Inrush current	Yes / max. 15 A
Recommended back-up fuse	6 A, Char. B, circuit breaker, 3 - 5 A Char. C, circuit breaker
Output	
Rated output voltage	5 V DC
Output voltage	4.5...7 V (adjustable via potentiometer)
Residual ripple, breaking spikes	< 50 mVss @ U _{Nom} , Full Load
Rated (nominal) output current @ U _{Nom}	14 A @ 60°C
Continuous output current @ U _{Rated}	16,8 A @ 45°C, 10,5 A @ 70°C
Leitungsreserve @ U _{Rated}	16,8 A (1 min), 21 A (4s)
Pulsed current capacity @ U _{Rated}	42 A (2ms)
General data	
Degree of efficiency	86%
Power factor (approx.)	> 0.90 @ 230 V AC
AC failure bridging time @ I _{Nom}	min. 20 ms
Protection against reverse voltages from the load	> 7.5 V DC
Parallel connection option	yes, max. 5
Depth x width x height	125 / 32 / 130 mm
Net weight	650 g
Approvals	
Approvals	CE; cULus; cULusEX; cURus; EAC; GL; TUEV

100...240 V AC (wide-range input)
85...277 V AC
45...65 Hz
80...370 V DC
1 A @ 230 V AC / 1.5 A @ 115 V AC
1A @ 370 VDC / 1,5A @ 120 VDC
Yes / max. 15 A
6 A, Char. B, circuit breaker, 3 - 5 A Char. C, circuit breaker
5 V DC
4.5...7 V (adjustable via potentiometer)
< 50 mVss @ U_{Sense} , Full Load
14 A @ 60°C
16,8 A @ 45°C, 10,5 A @ 70°C
16.8 A (1 min), 21 A (4s)
42 A (2ms)
86%
> 0.90 @ 230 V AC
min. 20 ms
> 7.5 V DC
yes, max. 5
125 / 32 / 130 mm
650 g
CE; cULus; cULusEX; cURus; EAC; GL; TUV

100...240 V AC (wide-range input)
85...277 V AC
45...65 Hz
80...370 V DC
1 A @ 230 V AC / 1.5 A @ 115 V AC
1A @ 370 VDC / 1,5A @ 120 VDC
Yes / max. 15 A
6 A, Char. B, circuit breaker, 3 - 5 A Char. C, circuit breaker
12 V DC ± 1 %
10...15 V (adjustable via potentiometer)
< 50 mVss @ U_{Nenn} , Full Load
6 A @ 60°C
7.2 A @ 45°C, 4.5 A @ 70°C
7.2 A (1 min), 9 A (4s)
18 A (2ms)
89%
> 0.90 @ 230 V AC
min. 20 ms
> 18 V DC
yes, max. 5
125 / 32 / 130 mm
650 g
CE; uLus; cULusEX; cURus; EAC; GL; TUV

Connection data	
Connection system	
Number of terminals	
Wire cross-section, rigid min/max	mm ²
Wire cross-section, flexible min/max	mm ²
Wire cross-section, AWG/kcmil min/max	
Screwdriver blade	
Note	

Input	Output
Screw connection	Screw connection
3 for L/N/PE	8 (++,-,11,13,14)
0.18 / 6	0.5 / 6
0.22 / 4	0.5 / 4
26 / 10	26 / 12
0.8 x 4.0, PZ 1	0.6 x 3.5

Input	Output
Screw connection	Screw connection
3 for L/N/PE	8 (+,-,11,13,14)
0.18 / 6	0.5 / 6
0.22 / 4	0.5 / 4
26 / 10	26 / 12
0.8 x 4.0, PZ 1	0.6 x 3.5

Ordering data

Type	Qty.	Order No.
------	------	-----------

Type	Qty.	Order No.
PRO MAX 70W 5V 14A	1	1478210000

Type	Qty.	Order No.
PRO MAX 72W 12V 6A	1	1478220000

Note

The internal varistor found in a switch-mode power supply does not replace the need for surge protection within a system.

The internal varistor found in a switch-mode power supply does not replace the need for surge protection within a system.

Accessories

Note

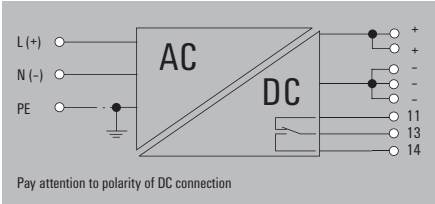
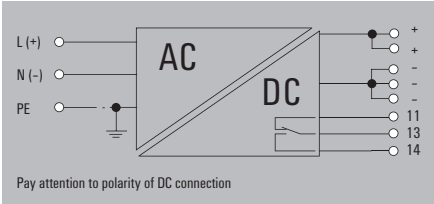
Note

Note

connectPower PROmax

PRO MAX 120W 12V 10A

PRO MAX 240W 48V 5A



Technical data

Input	
Rated input voltage	100...240 V AC (wide-range input)
Input voltage range AC	85...277 V AC
Frequency range AC	45...65 Hz
DC input voltage range	80...370 V DC
AC current consumption	1A @ 230 VAC / 2,5A @ 115 VAC
DC current consumption	1,5A @ 370 VDC / 2,5A @ 120 VDC
Input fuse (internal) / Inrush current	Yes / max. 15 A
Recommended back-up fuse	6 A, Char. B, circuit breaker, 6 A, char. C circuit breaker
Output	
Rated output voltage	12 V DC $\pm$ 1 %
Output voltage	10...15 V (adjustable via potentiometer)
Residual ripple, breaking spikes	< 50 mVss @ U_{Nomin} , Full Load
Rated (nominal) output current @ U_{Nomin}	10 A @ 60 °C
Continuous output current @ U_{Rated}	12 A @ 45 °C, 7,5 A @ 70 °C
Leitungsreserve @ U_{Rated}	12 A (1 min), 15 A (4s)
Pulsed current capacity @ U_{Rated}	30 A (2ms)
General data	
Degree of efficiency	89%
Power factor (approx.)	> 0.90 @ 230 V AC
AC failure bridging time @ I_{Nomin}	min. 20 ms
Protection against reverse voltages from the load	> 18 V DC
Parallel connection option	yes, max. 5
Depth x width x height	125 / 40 / 130 mm
Net weight	850 g
Approvals	
Approvals	CE; cULus; cULusEX; cURus; EAC; GL; TUEV

Input	
Rated input voltage	100...240 V AC (wide-range input)
Input voltage range AC	85...277 V AC
Frequency range AC	45...65 Hz
DC input voltage range	80...370 V DC
AC current consumption	1,5 A @ 230 V AC / 3 A @ 115 V AC
DC current consumption	1,5A @ 370 VDC / 3A @ 120 VDC
Input fuse (internal) / Inrush current	Yes / max. 15 A
Recommended back-up fuse	10 A, char. B circuit breaker, 6...8 A, char. C circuit breaker
Output	
Rated output voltage	48 V DC $\pm$ 1 %
Output voltage	30...56 V (adjustable via potentiometer)
Residual ripple, breaking spikes	< 50 mVss @ U_{Nomin} , Full Load
Rated (nominal) output current @ U_{Nomin}	5 A @ 60 °C
Continuous output current @ U_{Rated}	6,0 A @ 45 °C, 3,75 A @ 70 °C
Leitungsreserve @ U_{Rated}	5 A (1 min), 7,5 A (4s)
Pulsed current capacity @ U_{Rated}	15 A (2ms)
General data	
Degree of efficiency	92.5%
Power factor (approx.)	> 0.95 @ 230 V AC
AC failure bridging time @ I_{Nomin}	min. 20 ms
Protection against reverse voltages from the load	58 ... 65 V DC
Parallel connection option	yes, max. 5
Depth x width x height	125 / 60 / 130 mm
Net weight	1050 g
Approvals	
Approvals	CE; cULus; cULusEX; cURus; EAC; GL; TUEV

Input	
Rated input voltage	100...240 V AC (wide-range input)
Input voltage range AC	85...277 V AC
Frequency range AC	45...65 Hz
DC input voltage range	80...370 V DC
AC current consumption	1,5 A @ 230 V AC / 3 A @ 115 V AC
DC current consumption	1,5A @ 370 VDC / 3A @ 120 VDC
Input fuse (internal) / Inrush current	Yes / max. 15 A
Recommended back-up fuse	10 A, char. B circuit breaker, 6...8 A, char. C circuit breaker
Output	
Rated output voltage	48 V DC $\pm$ 1 %
Output voltage	30...56 V (adjustable via potentiometer)
Residual ripple, breaking spikes	< 50 mVss @ U_{Nomin} , Full Load
Rated (nominal) output current @ U_{Nomin}	5 A @ 60 °C
Continuous output current @ U_{Rated}	6,0 A @ 45 °C, 3,75 A @ 70 °C
Leitungsreserve @ U_{Rated}	5 A (1 min), 7,5 A (4s)
Pulsed current capacity @ U_{Rated}	15 A (2ms)
General data	
Degree of efficiency	92.5%
Power factor (approx.)	> 0.95 @ 230 V AC
AC failure bridging time @ I_{Nomin}	min. 20 ms
Protection against reverse voltages from the load	58 ... 65 V DC
Parallel connection option	yes, max. 5
Depth x width x height	125 / 60 / 130 mm
Net weight	1050 g
Approvals	
Approvals	CE; cULus; cULusEX; cURus; EAC; GL; TUEV

Connection data	
Connection system	Screw connection
Number of terminals	3 for L/N/PE
Wire cross-section, rigid min/max	0.18 / 6
Wire cross-section, flexible min/max	0.22 / 4
Wire cross-section, AWG/kcmil min/max	26 / 10
Screwdriver blade	0.8 x 4.0, PZ 1
Note	

Input	Output
Screw connection	Screw connection
3 for L/N/PE	8 (+, -, 11, 13, 14)
0.18 / 6	0.5 / 6
0.22 / 4	0.5 / 4
26 / 10	26 / 12
0.8 x 4.0, PZ 1	0.6 x 3.5

Input	Output
Screw connection	Screw connection
3 for L/N/PE	8 (+, -, 11, 13, 14)
0.18 / 6	0.18 / 6
0.22 / 4	0.22 / 4
26 / 10	26 / 10
0.8 x 4.0, PZ 1	0.8 x 4.0, PZ 1

Ordering data

Type	Qty.	Order No.
------	------	-----------

Type	Qty.	Order No.
PRO MAX 120W 12V 10A	1	1478230000

Type	Qty.	Order No.
PRO MAX 240W 48V 5A	1	1478240000

Note

The internal varistor found in a switch-mode power supply does not replace the need for surge protection within a system.

The internal varistor found in a switch-mode power supply does not replace the need for surge protection within a system.

Accessories

Note

Note

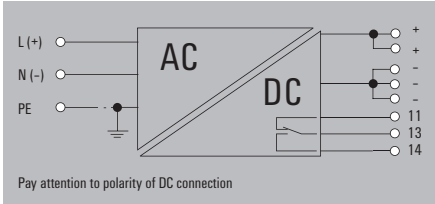
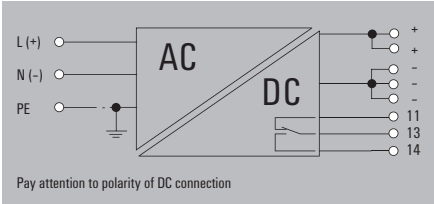
Note

connectPower PROmax

connectPower PROmax

PRO MAX 480W 48V 10A

PRO MAX 960W 48V 20A



Technical data

Input	
Rated input voltage	100...240 V AC (wide-range input)
Input voltage range AC	85...277 V AC
Frequency range AC	45...65 Hz
DC input voltage range	80...370 V DC
AC current consumption	2,3A @ 230 VAC / 4,8A @ 115 VAC
DC current consumption	1,5A @ 370 VDC / 4,8A @ 120 VDC
Input fuse (internal) / Inrush current	Yes / max. 15 A
Recommended back-up fuse	16 A, Char. B circuit breaker, 10 A, char. C circuit breaker
Output	
Rated output voltage	48 V DC $\pm$ 1 %
Output voltage	30...56 V (adjustable via potentiometer)
Residual ripple, breaking spikes	< 50 mVss @ U_{Nomin} , Full Load
Rated (nominal) output current @ U_{Nomin}	10 A @ 60 °C
Continuous output current @ U_{Rated}	12 A @ 45°C, 7,5 A @ 70°C
Leitungsreserve @ U_{Rated}	12 A (1 min), 15 A (4s), 100...240 V AC
Pulsed current capacity @ U_{Rated}	60 A (2ms)
General data	
Degree of efficiency	93%
Power factor (approx.)	> 0.95 @ 230 V AC
AC failure bridging time @ I_{Nomin}	min. 20 ms
Protection against reverse voltages from the load	58 ... 65 V DC
Parallel connection option	yes, max. 5
Depth x width x height	150 / 90 / 130 mm
Net weight	2000 g
Approvals	
Approvals	CE; cULus; cULusEX; cURus; EAC; GL; TUEV

Input	
Rated input voltage	100...240 V AC (wide-range input)
Input voltage range AC	85...277 V AC
Frequency range AC	45...65 Hz
DC input voltage range	80...370 V DC
AC current consumption	2,3A @ 230 VAC / 4,8A @ 115 VAC
DC current consumption	1,5A @ 370 VDC / 4,8A @ 120 VDC
Input fuse (internal) / Inrush current	Yes / max. 15 A
Recommended back-up fuse	16 A, Char. B circuit breaker, 10 A, char. C circuit breaker
Output	
Rated output voltage	48 V DC $\pm$ 1 %
Output voltage	30...56 V (adjustable via potentiometer)
Residual ripple, breaking spikes	< 50 mVss @ U_{Nomin} , Full Load
Rated (nominal) output current @ U_{Nomin}	10 A @ 60 °C
Continuous output current @ U_{Rated}	12 A @ 45°C, 7,5 A @ 70°C
Leitungsreserve @ U_{Rated}	12 A (1 min), 15 A (4s), 100...240 V AC
Pulsed current capacity @ U_{Rated}	60 A (2ms)
General data	
Degree of efficiency	93%
Power factor (approx.)	> 0.95 @ 230 V AC
AC failure bridging time @ I_{Nomin}	min. 20 ms
Protection against reverse voltages from the load	58 ... 65 V DC
Parallel connection option	yes, max. 5
Depth x width x height	150 / 90 / 130 mm
Net weight	2000 g
Approvals	
Approvals	CE; cULus; cULusEX; cURus; EAC; GL; TUEV

Input	
Rated input voltage	100...240 V AC (wide-range input)
Input voltage range AC	85...277 V AC
Frequency range AC	45...65 Hz
DC input voltage range	80...370 V DC
AC current consumption	4,52A @ 230 VAC / 10A @ 115 VAC
DC current consumption	2,8A @ 370 VDC / 10A @ 120 VDC
Input fuse (internal) / Inrush current	Yes / max. 15 A
Recommended back-up fuse	20 A, char. B circuit breaker, 16 A, Char. C circuit breaker
Output	
Rated output voltage	48 V DC $\pm$ 1 %
Output voltage	30...56 V (adjustable via potentiometer)
Residual ripple, breaking spikes	< 50 mVss @ U_{Nomin} , Full Load
Rated (nominal) output current @ U_{Nomin}	20 A @ 60 °C
Continuous output current @ U_{Rated}	24 A @ 45°C, 15 A @ 70°C
Leitungsreserve @ U_{Rated}	24 A (1 min), 30 A (4s), 100...240 V AC
Pulsed current capacity @ U_{Rated}	60 A (2ms)
General data	
Degree of efficiency	94%
Power factor (approx.)	> 0.95 @ 230 V AC
AC failure bridging time @ I_{Nomin}	min. 20 ms
Protection against reverse voltages from the load	58 ... 65 V DC
Parallel connection option	yes, max. 5
Depth x width x height	150 / 140 / 130 mm
Net weight	1350 g
Approvals	
Approvals	CE; cULus; cULusEX; cURus; EAC; GL; TUEV

Connection data	
Connection system	Screw connection
Number of terminals	3 for L/N/PE
Wire cross-section, rigid min/max	0.18 / 6
Wire cross-section, flexible min/max	0.22 / 4
Wire cross-section, AWG/kcmil min/max	26 / 10
Screwdriver blade	0.8 x 4.0, PZ 1
Note	

Input	Output
Screw connection	Screw connection
3 for L/N/PE	8 (+,-,11,13,14)
0.18 / 6	0.18 / 6
0.22 / 4	0.22 / 4
26 / 10	26 / 10
0.8 x 4.0, PZ 1	0.8 x 4.0, PZ 1

Input	Output
Screw connection	Screw connection
3 for L/N/PE	8 (+,-,11,13,14)
0.18 / 6	0.5 / 16
0.22 / 4	0.5 / 16
26 / 10	22 / 8
0.8 x 4.0, PZ 1	1.0 x 5.5

Ordering data

Type	Qty.	Order No.
PRO MAX 480W 48V 10A	1	1478250000

Type	Qty.	Order No.
PRO MAX 480W 48V 10A	1	1478250000

Type	Qty.	Order No.
PRO MAX 960W 48V 20A	1	1478270000

Note

The internal varistor found in a switch-mode power supply does not replace the need for surge protection within a system.

The internal varistor found in a switch-mode power supply does not replace the need for surge protection within a system.

Accessories

Note

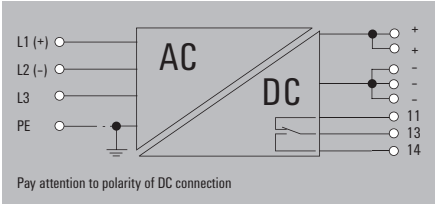
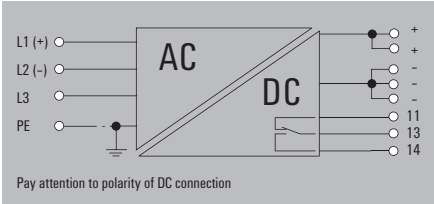
Note

Note

connectPower PROmax

PRO MAX3 120W 24V 5A

PRO MAX3 240W 24V 10A



Technical data

Input	
Rated input voltage	3 x 400...3 x 500 V AC (wide-range input)
Input voltage range AC	3 x 320...3 x 575 V AC / 2 x 360...2 x 575 V AC
Frequency range AC	45...65 Hz
DC input voltage range	450...800 V DC (max. 500 V DC acc. to UL508)
AC current consumption	0,28A @ 3*500 VAC / 0,3A @ 3*400 VAC
DC current consumption	0,18 A @ 800 V DC / 0,3 A @ 450 V DC
Input fuse (internal) / Inrush current	Yes / max. 15 A
Recommended back-up fuse	2...3 A, char. C circuit breaker
Output	
Rated output voltage	24 V DC $\pm$ 1 %
Output voltage	22.5...29.5 V (adjustable via potentiometer)
Residual ripple, breaking spikes	< 50 mVss @ U_{NOM} , Full Load
Rated (nominal) output current @ U_{NOM}	5 A @ 60 °C
Continuous output current @ U_{Rated}	6,0 A @ 45 °C, 3,75 A @ 70 °C
Leitungsreserve @ U_{Rated}	6 A (1 min), 7,5 A (4s), 400...500 V AC
Pulsed current capacity @ U_{Rated}	15 A (2ms)
General data	
Degree of efficiency	90%
Power factor (approx.)	> 0.50 @ 3*400 V AC
AC failure bridging time @ I_{NOM}	min. 20 ms
Protection against reverse voltages from the load	30...35 V DC
Parallel connection option	yes, max. 5
Depth x width x height	125 / 40 / 130 mm
Net weight	783 g
Approvals	
Approvals	CE; cULus; cULusEX; cURus; EAC; GL; TUEV

Input	
Rated input voltage	3 x 400...3 x 500 V AC (wide-range input)
Input voltage range AC	3 x 320...3 x 575 V AC / 2 x 360...2 x 575 V AC
Frequency range AC	45...65 Hz
DC input voltage range	450...800 V DC (max. 500 V DC acc. to UL508)
AC current consumption	0,35A @ 3*500 VAC / 0,4A @ 3*400 VAC
DC current consumption	0,35 A @ 800 V DC / 0,6 A @ 450 V DC
Input fuse (internal) / Inrush current	Yes / max. 15 A
Recommended back-up fuse	3 - 5 A Char. C, circuit breaker
Output	
Rated output voltage	24 V DC $\pm$ 1 %
Output voltage	22.5...29.5 V (adjustable via potentiometer)
Residual ripple, breaking spikes	< 50 mVss @ U_{NOM} , Full Load
Rated (nominal) output current @ U_{NOM}	10 A @ 60 °C
Continuous output current @ U_{Rated}	12 A @ 45 °C, 7,5 A @ 70 °C
Leitungsreserve @ U_{Rated}	12 A (1 min), 15 A (4s)
Pulsed current capacity @ U_{Rated}	30 A (2ms)
General data	
Degree of efficiency	91.5%
Power factor (approx.)	> 0.85 @ 3*400 V AC
AC failure bridging time @ I_{NOM}	min. 20 ms
Protection against reverse voltages from the load	30...35 V DC
Parallel connection option	yes, max. 5
Depth x width x height	125 / 60 / 130 mm
Net weight	1322 g
Approvals	
Approvals	CE; cULus; cULusEX; cURus; EAC; GL; TUEV

Input	
Rated input voltage	3 x 400...3 x 500 V AC (wide-range input)
Input voltage range AC	3 x 320...3 x 575 V AC / 2 x 360...2 x 575 V AC
Frequency range AC	45...65 Hz
DC input voltage range	450...800 V DC (max. 500 V DC acc. to UL508)
AC current consumption	0,35A @ 3*500 VAC / 0,4A @ 3*400 VAC
DC current consumption	0,35 A @ 800 V DC / 0,6 A @ 450 V DC
Input fuse (internal) / Inrush current	Yes / max. 15 A
Recommended back-up fuse	3 - 5 A Char. C, circuit breaker
Output	
Rated output voltage	24 V DC $\pm$ 1 %
Output voltage	22.5...29.5 V (adjustable via potentiometer)
Residual ripple, breaking spikes	< 50 mVss @ U_{NOM} , Full Load
Rated (nominal) output current @ U_{NOM}	10 A @ 60 °C
Continuous output current @ U_{Rated}	12 A @ 45 °C, 7,5 A @ 70 °C
Leitungsreserve @ U_{Rated}	12 A (1 min), 15 A (4s)
Pulsed current capacity @ U_{Rated}	30 A (2ms)
General data	
Degree of efficiency	91.5%
Power factor (approx.)	> 0.85 @ 3*400 V AC
AC failure bridging time @ I_{NOM}	min. 20 ms
Protection against reverse voltages from the load	30...35 V DC
Parallel connection option	yes, max. 5
Depth x width x height	125 / 60 / 130 mm
Net weight	1322 g
Approvals	
Approvals	CE; cULus; cULusEX; cURus; EAC; GL; TUEV

Connection data	
Connection system	Screw connection
Number of terminals	4 for L1/L2/L3/PE
Wire cross-section, rigid min/max	0.18 / 6
Wire cross-section, flexible min/max	0.22 / 4
Wire cross-section, AWG/kcmil min/max	26 / 10
Screwdriver blade	0.8 x 4.0, PZ 1
Note	

Input	Output
Screw connection	Screw connection
4 for L1/L2/L3/PE	8 (+, -, 11, 13, 14)
0.18 / 6	0.5 / 6
0.22 / 4	0.5 / 4
26 / 10	26 / 12
0.8 x 4.0, PZ 1	0.6 x 3.5

Input	Output
Screw connection	Screw connection
4 for L1/L2/L3/PE	8 (+, -, 11, 13, 14)
0.18 / 6	0.18 / 6
0.22 / 4	0.22 / 4
26 / 10	26 / 10
0.8 x 4.0, PZ 1	0.8 x 4.0, PZ 1

Ordering data

Type	Qty.	Order No.
------	------	-----------

Type	Qty.	Order No.
PRO MAX3 120W 24V 5A	1	1478170000

Type	Qty.	Order No.
PRO MAX3 240W 24V 10A	1	1478180000

Note

The internal varistor found in a switch-mode power supply does not replace the need for surge protection within a system.

The internal varistor found in a switch-mode power supply does not replace the need for surge protection within a system.

Accessories

Note

Note

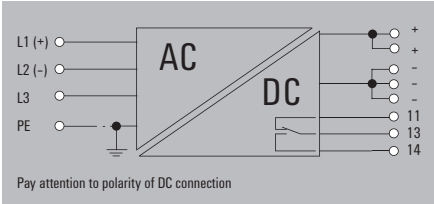
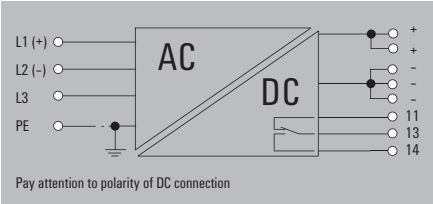
Note

connectPower PROmax

connectPower PROmax

PRO MAX3 480W 24V 20A

PRO MAX3 960W 24V 40A



Technical data

Input
Rated input voltage
Input voltage range AC
Frequency range AC
DC input voltage range
AC current consumption
DC current consumption
Input fuse (internal) / Inrush current
Recommended back-up fuse

3 x 400...3 x 500 V AC (wide-range input)
3 x 320...3 x 575 V AC / 2 x 360...2 x 575 V AC
45...65 Hz
450...800 V DC (max. 500 V DC acc. to UL508)
0,7 A @ 3*500 VAC / 0,85 @ 3*400 VAC
0,7 A @ 800 V DC / 1,2 A @ 450 V DC
Yes / max. 15 A
3 - 5 A Char. C, circuit breaker

3 x 400...3 x 500 V AC (wide-range input)
3 x 320...3 x 575 V AC / 2 x 360...2 x 575 V AC
45...65 Hz
450...800 V DC (max. 500 V DC acc. to UL508)
1,3 A @ 3*500 VAC / 1,6 A @ 3*400 VAC
1,4 A @ 800 V DC / 2,4 A @ 450 V DC
Yes / max. 15 A
6...8 A, char. C circuit breaker

Output
Rated output voltage
Output voltage
Residual ripple, breaking spikes
Rated (nominal) output current @ U_{Nom}
Continuous output current @ U_{Rated}
Leitungsreserve @ U_{Rated}
Pulsed current capacity @ U_{Rated}

24 V DC $\pm$ 1 %
22,5...29,5 V (adjustable via potentiometer)
< 50 mVss @ U_{Nomin} , Full Load
20 A @ 60 °C
24 A @ 45°C, 15 A @ 70°C
24 A (1 min), 30 A (4s)
60 A (2ms)

24 V DC $\pm$ 1 %
22,5...29,5 V (adjustable via potentiometer)
< 50 mVss @ U_{Nomin} , Full Load
40 A @ 60 °C
48 A @ 45°C, 30 A @ 70°C
48 A (1 min), 60 A (4s), 400...500 V AC
120 A (2ms)

General data
Degree of efficiency
Power factor (approx.)
AC failure bridging time @ I_{Nom}
Protection against reverse voltages from the load
Parallel connection option
Depth x width x height
Net weight

91,5%
> 0,85 @ 3*400 V AC
min. 20 ms
30...35 V DC
yes, max. 3
150 / 70 / 130 mm
1600 g

93,5%
> 0,75 @ 3*400 V AC
min. 20 ms
30...35 V DC
yes, max. 3
150 / 140 / 130 mm
3400 g

Approvals
Approvals

CE; cULus; cULusEX; cURus; EAC; GL; TUEV
--

CE; cULus; cULusEX; cURus; EAC; GL; TUEV
--

Connection data
Connection system
Number of terminals
Wire cross-section, rigid min/max
Wire cross-section, flexible min/max
Wire cross-section, AWG/kcmil min/max
Screwdriver blade

Input	Output
Screw connection	Screw connection
4 for L1/L2/L3/PE	8 (++, --, 11, 13, 14)
0,18 / 6	0,18 / 6
0,22 / 4	0,22 / 4
26 / 10	26 / 10
0,8 x 4,0, PZ 1	0,8 x 4,0, PZ 1

Input	Output
Screw connection	Screw connection
4 for L1/L2/L3/PE	8 (++, --, 11, 13, 14)
0,18 / 6	0,5 / 16
0,22 / 4	0,5 / 16
26 / 10	22 / 8
0,8 x 4,0, PZ 1	1,0 x 5,5

Note

Note

Note

Ordering data

Type	Qty.	Order No.
PRO MAX3 480W 24V 20A	1	1478190000

Type	Qty.	Order No.
PRO MAX3 480W 24V 20A	1	1478190000

Type	Qty.	Order No.
PRO MAX3 960W 24V 40A	1	1478200000

Note

The internal varistor found in a switch-mode power supply does not replace the need for surge protection within a system.

The internal varistor found in a switch-mode power supply does not replace the need for surge protection within a system.

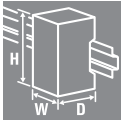
Accessories

Note

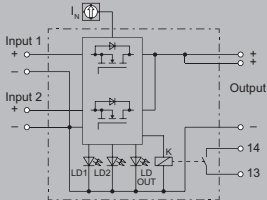
Note

Note

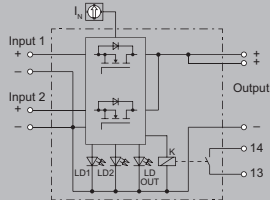
connectPower PROmax redundancy module



PRO RM 10



PRO RM 20



Technical data

Input	
DC input voltage range	
DC current consumption	
Output	
Rated output voltage	
Continuous output current @ U_{Rated}	
General data	
Ambient temperature (operational)	
Storage temperature	
Derating	
Degree of efficiency	
Mounting position, installation notice	
Depth x width x height / Net weight	
Approvals	

10 ... 32 V DC
2 × 12 A (-40 °C ~ +45 °C), 2 × 10 A (+45 °C ~ +60 °C), 2 × 7.5 A (+70 °C)
UNDEFINED TEXT
1 × 24 A (-40 °C ~ +45 °C), 1 × 20 A (+45 °C ~ +60 °C), 1 × 15 A (+70 °C)
-40 °C...70 °C
85 °C...40 °C
> 60°C / 75% @ 70°C
> 98%
Horizontal on TS35 mounting rail. 50 mm of clearance at top & bottom for air circ. Can mount side by side with no space in between.
125 / 30 / 130 mm / 497 g

10 ... 32 V DC
2 × 24 A (-40 °C ~ +45 °C), 2 × 20 A (+45 °C ~ +60 °C), 2 × 15 A (+70 °C)
UNDEFINED TEXT
1 × 48 A (-40 °C ~ +45 °C), 1 × 40 A (+45 °C ~ +60 °C), 1 × 30 A (+70 °C)
-40 °C...70 °C
85 °C...40 °C
> 60°C / 75% @ 70°C
> 98%
Horizontal on TS35 mounting rail. 50 mm of clearance at top & bottom for air circ. Can mount side by side with no space in between.
125 / 38 / 130 mm / 558 g

Connection data	
Connection system	
Number of terminals	
Wire cross-section, rigid min/max	mm ²
Wire cross-section, flexible min/max	mm ²
Wire cross-section, AWG/kcmil min/max	
Tightening torque range	
Note	

Input	Output
PUSH IN	PUSH IN
4 (+, +, -, -)	2 (+ / -)
0.2 / 2.5	0.2 / 10
0.2 / 2.5	0.2 / 6
26 / 12	24 / 8

Input	Output
PUSH IN	PUSH IN
4 (+, +, -, -)	2 (+ / -)
0.2 / 10	0.75 / 16
0.2 / 6	0.75 / 16
24 / 8	20 / 4

Ordering data

Type	Qty.	Order No.
PRO RM 10	1	2486090000
Note		

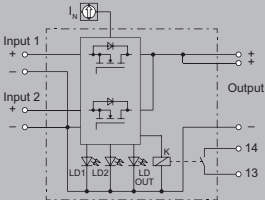
Type	Qty.	Order No.
PRO RM 10	1	2486090000
Note		

Type	Qty.	Order No.
PRO RM 20	1	2486100000
Note		

connectPower PROmax

connectPower PROmax redundancy module

PRO RM 40



Technical data

Input	
DC input voltage range	
DC current consumption	
Output	
Rated output voltage	
Continuous output current @ U_{Rated}	
General data	
Ambient temperature (operational)	
Storage temperature	
Derating	
Degree of efficiency	
Mounting position, installation notice	
Depth x width x height / Net weight	
Approvals	

10 ... 32 V DC
2 × 48 A (-40 °C ~ +45 °C), 2 × 40 A (+45 °C ~ +60 °C), 2 × 30 A (+70 °C)
UNDEFINED TEXT
1 × 96 A (-40 °C ~ +45 °C), 1 × 80 A (+45 °C ~ +60 °C), 1 × 60 A (+70 °C)
-40 °C...70 °C
85 °C...40 °C
> 60°C / 75% @ 70°C
> 98%
Horizontal on TS35 mounting rail. 50 mm of clearance at top & bottom for air circ. Can mount side by side with no space in between.
125 / 52 / 130 mm / 747 g

Connection data	
Connection system	
Number of terminals	
Wire cross-section, rigid min/max	mm ²
Wire cross-section, flexible min/max	mm ²
Wire cross-section, AWG/kcmil min/max	
Tightening torque range	
Note	

Input	Output
Screw connection	Screw connection
4 (+, +, -, -)	2 (+ / -)
0.2 / 16	0.5 / 16
0.5 / 16	0.5 / 35
22 / 6	20 / 1
	/ 4

Ordering data

Screw connection
Note

Type	Qty.	Order No.
PRO RM 40	1	2486110000

PRO-M: diode, capacitor and relay modules



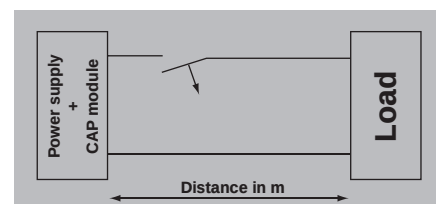
CP M CAP



Pulse triggering for circuit breakers: with the Weidmüller capacitance module

The following conditions apply to the table entries:

- Ambient temperature of 20 °C
- Inner resistance of the circuit breakers is taken into account
- Half of the rated current flows to a neighbouring circuit before the short circuit is formed
- DC-compatible circuit breakers: Siemens 5SY series



Technical data

Input
Rated input voltage / DC input voltage range
Output
Peak current output / Recovery time for the capacitor
Switching thresholds
Floating contact
General data
Depth x width x height / Net weight
Ambient temperature (operational) / Storage temperature
Humidity
Protection degree
Class of protection
Pollution degree
Insulation voltage
MTBF
Mounting position, installation notice
EMC / shock / vibration
Noise emission acc. to EN55022
Interference immunity test acc. to
Resistance to vibration / Shock
Electrical safety (applied standards)
Electrical machine equipment
For use with electronic equipment
Safety extra-low voltage
Approvals
Approvals

24 V DC / 18...30 V DC
Depending on the load (typically 40 A for 1 ms) / Approx. 1 sec.
21.6 V DC, relay is on for Power Good, 20.4 V DC, relay is off for Power Fail
Yes
/ 150 / 34 / 130 mm / 733 g
-25 °C...70 °C-40 °C...85 °C
5...95 %, no condensation
IP20
III, with no ground connection, for SELV
2
0.5 kV Input/output housing
> 500,000 h acc. to IEC 1709 (SN29500)
Horizontal on TS35 mounting rail. 50 mm of clearance at top & bottom for air circ. Can mount side by side with no space in between.
Class B
EN 61000-4-2 (ESD) EN 61000-4-3 and EN 61000-4-8 (fields) EN 61000-4-4 (burst) EN 61000-4-5 (surge) EN 61000-4-6 (conducted) EN 61000-4-11 (dips)
1 g according to EN50178 / 15 g In all directions
Acc. to EN60204
Acc. to EN50178 / VDE0160
SELV acc. to EN60950, PELV acc. to EN60204
CE; cULus; EAC; GL

Fuse tripping

Conductor cross section	B6	B10
0.75 mm ²	10 m	
1.0 mm ²	14 m	6 m
1.5 mm ²	20 m	9 m
2.5 mm ²	30 m	15 m
4 mm ²	50 m	24 m
6 mm ²		
B16		
0.75 mm ²		
1.0 mm ²		
1.5 mm ²	4 m	
2.5 mm ²	6 m	
4 mm ²	10 m	
6 mm ²	16 m	
C2 C4		
0.75 mm ²	11 m	6 m
1.0 mm ²	14 m	8 m
1.5 mm ²	21 m	12 m
2.5 mm ²	34 m	19 m
4 mm ²		32 m
6 mm ²		
C6 C10		
0.75 mm ²	3 m	
1.0 mm ²	3.5 m	2 m
1.5 mm ²	5.5 m	3 m
2.5 mm ²	9 m	5 m
4 mm ²	14 m	8 m
6 mm ²		12 m

Connection data
Wire connection method
Number of terminals
Wire cross-section, rigid min/max
Wire cross-section, flexible min/max
Wire cross-section, AWG/kcmil min/max
Note

Input	Output
Screw connection	Screw connection
4 (++-)	3 (CO contacts)
0.5 / 6	0.5 / 6
0.5 / 4	0.5 / 2.5
26 / 12	26 / 12
For low-impedance connections we recommend 2.5 mm ² .	

Ordering data

Plastic clip-in foot
Metal clip-in foot

Type	Qty.	Order No.
CP M CAP	1	1222240000
CP M CAP	1	1222240010

Note

Accessories

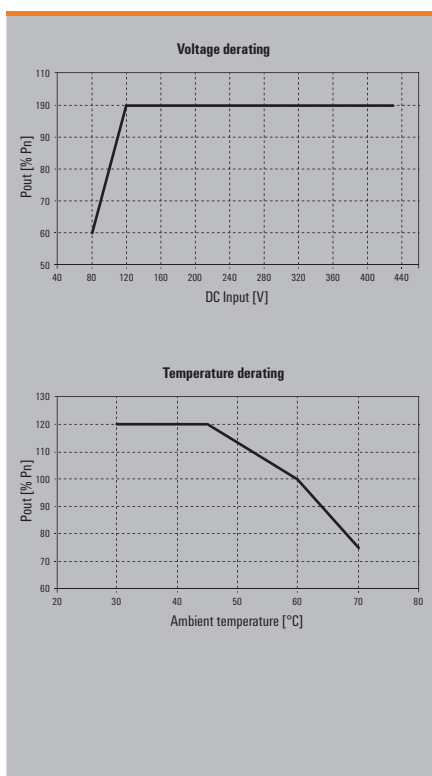
Note

connectPower PROmax

PRO-M: Application solution for wind power Switched-mode power supply with wide-range input

Application solution for wind power:

- 80 ... 430 V DC input
- Alarm contact
- Metal snap-on foot

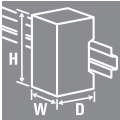


Technical data

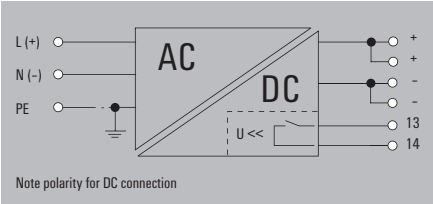
General technical data	
Output characteristic curve / current limit	I _U / > 120 % I _N
Earth discharge current	< 3.5 mA
Ambient temperature (operational) / Storage temperature / Start-up	-25 °C...+70 °C / -40 °C...+85 °C / ≥ -40 °C
Max. permitted humidity (operational)	5 %...95 % RH
Degree of protection	IP 20
Class of protection	I, with PE connection
Pollution degree	2
Insulation voltage	3 kV AC 1 min. / 2 kV AC 1 min. / 0.5 kV AC 1 min.
MTBF	> 500,000 h according to IEC 1709 (SN29500)
Protection against reverse voltages from the load	30...35 V DC
Can be connected in parallel	Yes, without diode module
Housing version	Metal, corrosion resistant
Signal indication	Operations, green/red LED
Mounting position, installation notice	Horizontal on TS 35 mounting rail, with 50 mm of clearance at top and bottom for air circulation. Can be mounted side by side with no space in between. Suitable for installation in rotating systems.

EMC / shock / vibration	
Noise emission acc. to EN55022	Class B
Noise immunity tests acc. to	EN61000-4-2 (ESD), EN61000-4-3 and EN61000-4-8 (Fields), EN61000-4-4 (Burst), EN61000-4-5 (Surge), EN61000-4-6 (conducted), EN61000-4-11 (Dips)
Limiting of mains voltage harmonic currents	according to EN61000-3-2
Resistance against vibration and shock	according to EN50178, Shock: 5 g in all directions
Electrical safety (applied standards)	
Electrical equipment of machines	according to EN60204
Safety transformers for switched-mode power units	according to EN61558-2-16
Safety transformers for switched-mode power units	according to EN50178 / VDE0160
Safety extra low voltage	SELV according to EN60950, PELV according to EN60204
Protective separation / protection against electrical shock	VDE0100-410 / according to DIN57100-410
Protection against dangerous shock currents	according to VDE0106-101

PRO-M: application solutions for
wind energy



CP M SNT 250W 24V 10A UW



Technical data

Input	
Rated input voltage / Input voltage range AC	
Frequency range AC	
DC input voltage range	
AC current consumption	
DC current consumption	
Input fuse (internal)	
Recommended back-up fuse	
Output	
Rated output voltage	
Output voltage	
Residual ripple, breaking spikes	
Rated (nominal) output current @ I_{NOM}	
Continuous output current	
General data	
Degree of efficiency	
Power factor (approx.)	
AC failure bridging time @ I_{NOM}	
Depth x width x height / Net weight	
Additional equipment	
Status indicator	
Relay on/off	
Approvals	
Approvals	

100...240 V AC (wide-range input) / 85...264 V AC (Derating @ 100 V AC)
47...63 Hz
80...430 V DC
1.2 A @ 230 V AC / 2.4 A @ 115 V AC
0.8 A @ 370 V DC / 2.3 A @ 120 V DC
Yes
4 A / DI, safety fuse
10 A, Char. B, circuit breaker
3...4 A, Char. C, circuit breaker
24 V DC $\pm$ 1 %
22.5...29.5 V DC (adjustable via potentiometer on front)
< 50 mV _{SS} @ 24 V DC, I_{NOM} < 2.4 V _{SS} @ 24 V DC, I_{NOM} @ -40°C
10 A @ 60 °C
90 % @ 230 V AC / 87 % @ 115 V AC
> 0.99 @ 230 V AC / > 0.97 @ 115 V AC
> 20 ms @ 230 V AC / > 20 ms @ 115 V AC
/ 155 / 60 / 130 mm / 1300 g
Green LED, red LED
Output voltage > 21.6 V / < 20.4 V
CE; cULus; EAC; GL; TUEV

Connection data	
Wire connection method	
Number of terminals	
Wire cross-section, rigid min/max	mm ²
Wire cross-section, flexible min/max	mm ²
Wire cross-section, AWG/kcmil min/max	
Note	

Input	Output
Screw connection	Screw connection
3 for L/N/PE	6 (+,+,,COM,NO)
0.5 / 6	0.5 / 6
0.5 / 2.5	0.5 / 2.5
26 / 12	26 / 12

Ordering data

--

Type	Qty.	Order No.
CP M SNT 250W 24V 10AUW	1	1165480010

Note

The internal varistor found in a switch-mode power supply does not replace the necessary surge protection in a system.
--

Accessories

Note

--

connectPower PROmax - Accessories

Small metal foot



Type	Order No.
MTA 30 MF	1251320000

Large metal foot



Type	Order No.
MTA 45 MF	1251310000

Small plastic foot



Type	Order No.
MTA 30 BK	1168970000

Large plastic foot



Type	Order No.
MTA 45 BK	1962250000

Small wall mounting



Type	Order No.
CP A WALLADAPTER 30 MM	1461870000

Large wall mounting



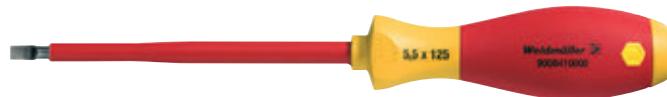
Type	Order No.
CP A WALLADAPTER 45 MM	1461850000

Small screwdriver



Type	Blade type	Size/AF	a	b	c	Order No.
SDIK PH1		1.00			80	9008570000
SDIS 0.5X3.0X100	B		0.5	3	100	9008380000

Large screwdriver



Type	Blade type	Size/AF	a	b	c	Order No.
SDIS 1.0X5.5X125	B		1	5.5	125	9008410000

Markers



Type	Colour	Qty.	Order No.
SM 18/9.5 K MC NE WS	white	200	1248580000

Endwinkel

For DIN rail TS 35



Type	Colour	Torque	Qty.	Order No.
Polyamide with fibre glass, screwable	black	1.2 Nm	50	1162600000
WEW 35/1 SW				

Supplying power even under difficult environmental conditions

PROtop – the innovative power supply for demanding applications

High-end power supplies must perform efficiently and reliably, even in challenging industrial environments. High power reserves, long service life and optimal protection against surge voltages, vibrations and extreme temperature conditions are all a requirement.

New DCL technology provides PROtop with outstanding dynamic range. This can be used for the reliable triggering of circuit breaking switches as well as for powerful motor starts.

Its unique features make PROtop your first choice for reliability, service life and energy efficiency, even under extreme temperature and vibration conditions.



Extreme vibration and temperature resistance as well as its space- and cost-saving concept for redundant power supply systems make PROtop the optimal high-end solution for wind turbines

Your special advantages:

DCL technology

PROtop benefits from unique impulse energy reserves thanks to new DCL technology. Ideal for reliable impulse triggering of circuit breakers or as additional energy for powerful motor starts.



Flexible application due to various operating modes

In parallel operation mode (P: parallel operation, S: single operation), the output voltage can be easily adjusted and the output currents can be symmetrically balanced.

Programmable short-circuit behaviour (C: sustained short-circuit current, S: short-circuit switch-off) offers specific overload and wiring protection.



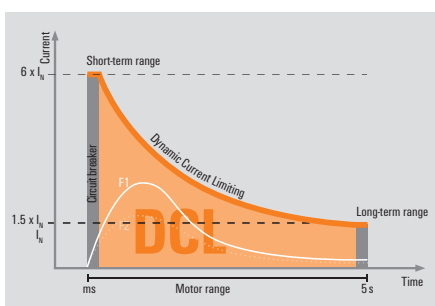
Futureproof with communicative power supplies

Available from November 2017 the communicative power supplies offer a new dimension of functional possibilities.



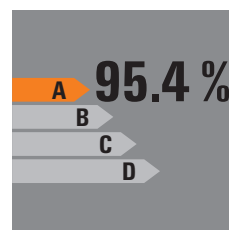
High peak power and excellent dynamic range thanks to the DCL technology

The peak current reserve of 600 % for 20 ms of innovative DCL technology reliably triggers circuit breakers. In addition, the continuous peak reserves from milliseconds to seconds ensure powerful motor starts.



Efficient, extremely space-saving and long life cycle

Efficiencies of up to 95.4 % lead to low power losses and extremely space saving housings. The lower heating up even results in high MTBF (>1,000,000 h) and long life cycle of more than 20 years.



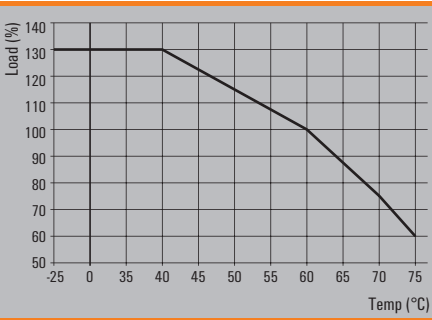
PROtop power supplies to satisfy the highest demands

PROtop

- DCL technology for an excellent dynamic range
- High energy efficiency (up to 95.4 % efficiency)
- Mode of operation: single or parallel operation and adjustable short-circuit response (continuous current or switch-off)
- Long service life of up to 20 years, MTBF > 1,000,000 h.
- Extremely slim design
- Time-saving PUSH IN connection technology



Derating curve



Technical data

General data	
Insulation voltage input / earth	4 kV
Insulation voltage output / earth	0.5 kV
Insulation voltage, input/output	4 kV
Earth leakage current, max.	3.5 mA
Series switching capability	Yes
Ambient temperature (operational) / Storage temperature	-25 °C...75 °C / -40 °C...85 °C
Humidity at operating temperature	5...95 %, no condensation
Class of protection / Pollution degree	I, with PE connection / 2
MTBF	> 1.000.000 h according IEC 1709 (SN29500)
Housing version	Metal, corrosion resistant
Mounting position, installation notice	Horizontal on DIN rail TS 35, top and bottom 50 mm clearance for free air flow, 10 mm clearance to neighbouring active subassemblies with full load, 5 mm with passive neighbouring subassemblies, direct row mounting with 90% rated load
EMC / shock / vibration	
Interference immunity test acc. to	EN 55024, EN 55032 (EN 55022), EN 61000-6-1, 2, 3, 4
Shock	30 g in all directions
Resistance to vibration	2.3 g (on DIN rail), 4 g (with direct mounting)
Electrical safety (applied standards)	
Electrical machine equipment	Acc. to EN60204
Safety transformers for switch-mode power supplies	nach EN61558-2-16
For use with electronic equipment	Acc. to EN50178 / VDE0160
Safety extra-low voltage	SELV acc. to EN60950, PELV acc. to EN60204
Protective separation / protection against electrical shock	VDE0100-410 / acc. to DIN57100-410
Protection against dangerous shock currents	Acc. to VDE0106-101



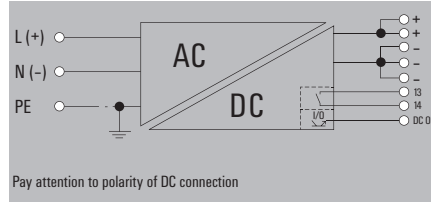
PROtop

- 1-phase power supplies

PRO TOP1 72 W 24 V 3 A



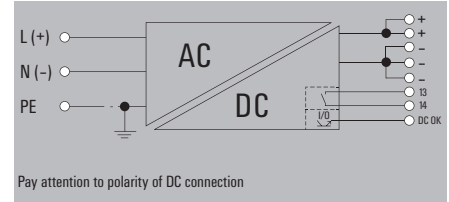
Similar to illustration



PRO TOP1 120 W 24 V 5 A



Similar to illustration



Technical data

Input

Rated input voltage
Input voltage range AC
Frequency range AC
DC input voltage range
Input fuse (internal) / Inrush current

Output

Rated output voltage
Output voltage
DCL - peak load reserve
Residual ripple, breaking spikes
Power reserve at nom. voltage
Rated (nominal) output current @ U_{nom}

General data

Derating
Series switching capability
Degree of efficiency
Power factor (approx.)
AC failure bridging time @ I_{nom}
LED green/red

Parallel connection option
Depth x width x height
Net weight

Approvals

Approvals

preliminary technical data!

100 - 240 V AC / 120 - 340 V DC
85...277 V AC
45...65 Hz
80 ... 410 V DC
Yes / max. 5 A

24 V DC $\pm 1\%$
22.5...29 V
150 % (5 s); 400 % (12 ms)
< 50 mVss @ U_{nom} , Full Load
130% permanent at $\leq 40^\circ\text{C}$
3 A @ 60°C

> 60°C (2.5% / 1°C)
Yes
typ. 90 %
> 0.90 @ 230 V AC
> 20 ms @ 230 V AC / > 20 ms @ 115 V AC
Green: Operation (failure-free), Flashing green: advance warning
I>90%, Green/red flashing: output switched off (switch-off mode),
Flashing red: overload/error
Passive Current Sharing
125 / 35 / 130 mm
650 g

preliminary technical data!

100 - 240 V AC / 120 - 340 V DC
85...277 V AC
45...65 Hz
48 ... 410 V DC (Derating 40 % @ 48 V DC)
Yes / max. 5 A

24 V DC $\pm 1\%$
22.5...29 V
150 % (5 s); 600 % (12 ms)
< 50 mVss @ U_{nom} , Full Load
130% permanent at $\leq 40^\circ\text{C}$
5 A @ 60°C

> 60°C (2.5% / 1°C)
Yes
typ. 91 %
> 0.90 @ 230 V AC
> 20 ms @ 230 V AC / > 20 ms @ 115 V AC
Green: Operation (failure-free), Flashing green: advance warning
I>90%, Green/red flashing: output switched off (switch-off mode),
Flashing red: overload/error
Passive Current Sharing
125 / 35 / 130 mm
850 g

Connection data

Connection system
Number of terminals
Wire cross-section, rigid min/max
Wire cross-section, flexible min/max
Wire cross-section, AWG/kcmil min/max

mm²
mm²

Input	Output
PUSH IN with actuator	PUSH IN with actuator
3 for L/N/PE	5 (+ / - / -)
0.5 / 1.5	0.2 / 2.5
0.5 / 2.5	0.2 / 2.5
20 / 12	26 / 12

Input	Output
PUSH IN with actuator	PUSH IN with actuator
3 for L/N/PE	5 (+ / - / -)
0.5 / 1.5	0.2 / 2.5
0.5 / 2.5	0.2 / 2.5
20 / 12	26 / 12

Note

Ordering data

Type	Qty.	Order No.
PRO TOP1 72W 24V 3A	1	2466850000

Type	Qty.	Order No.
PRO TOP1 120W 24V 5A	1	2466870000

Note

Current technical data on catalog.weidmueller.com

Current technical data on catalog.weidmueller.com

Accessories

Note

PROtop power supplies to satisfy the highest demands

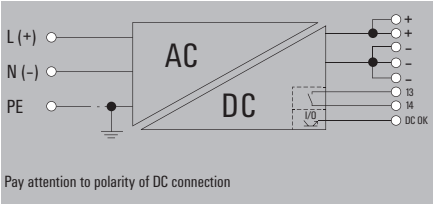
PROtop

- 1-phase power supplies

PRO TOP1 240 W 24 V 10 A



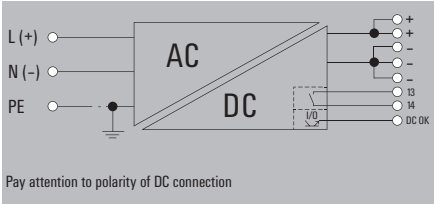
Similar to illustration



PRO TOP1 480 W 24 V 20 A



Similar to illustration



Technical data

Input
Rated input voltage
Input voltage range AC
Frequency range AC
DC input voltage range
Input fuse (internal) / Inrush current
Output
Rated output voltage
Output voltage
DCL - peak load reserve
Residual ripple, breaking spikes
Power reserve at nom. voltage
Rated (nominal) output current @ U_{Nom}
General data
Derating
Series switching capability
Degree of efficiency
Power factor (approx.)
AC failure bridging time @ I_{Nom}
LED green/red
Parallel connection option
Depth x width x height
Net weight
Approvals
Approvals

preliminary technical data!

100 - 240 V AC / 120 - 340 V DC
85...277 V AC
45...65 Hz
80 ... 410 V DC
Yes / max. 5 A
24 V DC $\pm$ 1 %
22.5...29 V
150 % (5 s); 600 % (12 ms)
< 50 mVss @ U_{Nem} , Full Load
130% permanent at $\leq 40^{\circ}\text{C}$
10 A @ 60 °C
> 60°C (2.5% / 1°C)
Yes
typ. 92,5 %
> 0.90 @ 230 V AC
> 20 ms @ 230 V AC / > 20 ms @ 115 V AC
Green: Operation (failure-free), Flashing green: advance warning
I>90%, Green/red flashing: output switched off (switch-off mode),
Flashing red: overload/error
Passive Current Sharing
125 / 39 / 130 mm
1050 g

preliminary technical data!

100 - 240 V AC / 120 - 340 V DC
85...277 V AC
45...65 Hz
80 ... 410 V DC
Yes / max. 5 A
24 V DC $\pm$ 1 %
22.5...29 V
150 % (5 s); 500 % (12 ms)
< 50 mVss @ U_{Nem} , Full Load
130% permanent at $\leq 40^{\circ}\text{C}$
20 A @ 60 °C
> 60°C (2.5% / 1°C)
Yes
typ. 93,5 %
> 0.90 @ 230 V AC
> 20 ms @ 230 V AC / > 20 ms @ 115 V AC
Green: Operation (failure-free), Flashing green: advance warning
I>90%, Green/red flashing: output switched off (switch-off mode),
Flashing red: overload/error
Passive Current Sharing
125 / 68 / 130 mm
1520 g

Connection data
Connection system
Number of terminals
Wire cross-section, rigid min/max
Wire cross-section, flexible min/max
Wire cross-section, AWG/kcmil min/max

Input	Output
PUSH IN with actuator	PUSH IN with actuator
3 for L/N/PE	5 (+ + / - -)
0.5 / 1.5	0.2 / 2.5
0.5 / 2.5	0.2 / 2.5
20 / 12	26 / 12

Input	Output
PUSH IN	PUSH IN
3 for L/N/PE	5 (+ + / - -)
0.2 / 10	0.2 / 10
0.2 / 6	0.2 / 6
20 / 8	20 / 8

Note

Ordering data

Type	Qty.	Order No.
------	------	-----------

Type	Qty.	Order No.
PRO TOP1 240W 24V 10A	1	2466880000

Type	Qty.	Order No.
PRO TOP1 480W 24V 20A	1	2466890000

Note

Current technical data on catalog.weidmueller.com

Current technical data on catalog.weidmueller.com

Accessories

Note

Note

Note

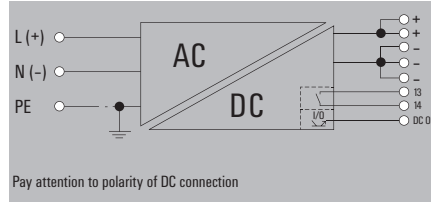
PROtop

- 1-phase power supplies

PRO TOP1 960 W 24 V 40 A



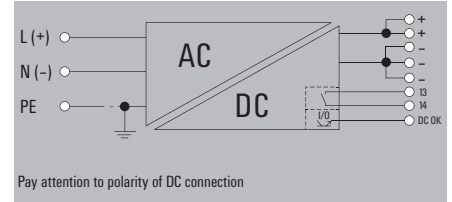
Similar to illustration



PRO TOP1 120 W 12 V 10 A



Similar to illustration



Technical data

Input
Rated input voltage
Input voltage range AC
Frequency range AC
DC input voltage range
Input fuse (internal) / Inrush current
Output
Rated output voltage
Output voltage
DCL - peak load reserve
Residual ripple, breaking spikes
Power reserve at nom. voltage
Rated (nominal) output current @ U_{Nom}
General data
Derating
Series switching capability
Degree of efficiency
Power factor (approx.)
AC failure bridging time @ I_{Nom}
LED green/red
Parallel connection option
Depth x width x height
Net weight
Approvals
Approvals

preliminary technical data!

100 - 240 V AC / 120 - 340 V DC
85...277 V AC
45...65 Hz
80 ... 410 V DC
Yes / max. 15 A
24 V DC $\pm$ 1 %
22.5...29 V
150 % (5 s); 300 % (12 ms)
< 50 mVss @ U_{Nom} , Full Load
130% permanent at $\leq 40^{\circ}\text{C}$
40 A @ 60°C
> 60°C (2.5% / 1°C)
Yes
typ. 94,5 %
> 0.90 @ 230 V AC
> 20 ms @ 230 V AC / > 20 ms @ 115 V AC
Green: Operation (failure-free), Flashing green: advance warning
I>90%, Green/red flashing: output switched off (switch-off mode),
Flashing red: overload/error
Passive Current Sharing
125 / 124 / 130 mm
3400 g

preliminary technical data!

100 - 240 V AC / 120 - 340 V DC
85...277 V AC
45...65 Hz
80 ... 410 V DC
Yes / max. 5 A
12 V DC $\pm$ 1 %
11...15 V
150 % (5 s); 400 % (12 ms)
< 50 mVss @ U_{Nom} , Full Load
130% permanent at $\leq 40^{\circ}\text{C}$
10 A @ 60°C
> 60°C (2.5% / 1°C)
Yes
typ. 90 %
> 0.90 @ 230 V AC
> 20 ms @ 230 V AC / > 20 ms @ 115 V AC
Green: Operation (failure-free), Flashing green: advance warning
I>90%, Green/red flashing: output switched off (switch-off mode),
Flashing red: overload/error
Passive Current Sharing
125 / 35 / 130 mm
850 g

Connection data
Connection system
Number of terminals
Wire cross-section, rigid min/max
Wire cross-section, flexible min/max
Wire cross-section, AWG/kcmil min/max

Input	Output
PUSH IN	PUSH IN
3 for L/N/PE	5 (+ + / - -)
0.75 / 16	0.75 / 16
0.75 / 16	0.75 / 16
20 / 4	20 / 4

Input	Output
PUSH IN with actuator	PUSH IN with actuator
3 for L/N/PE	5 (+ + / - -)
0.5 / 1.5	0.2 / 2.5
0.5 / 2.5	0.2 / 2.5
20 / 12	26 / 12

Note

Ordering data

Type	Qty.	Order No.
------	------	-----------

Type	Qty.	Order No.
PRO TOP1 960W 24V 40A	1	2466900000

Type	Qty.	Order No.
PRO TOP1 120W 12V 10A	1	2466910000

Note

Current technical data on catalog.weidmueller.com

Current technical data on catalog.weidmueller.com

Accessories

Note

PROtop power supplies to satisfy the highest demands

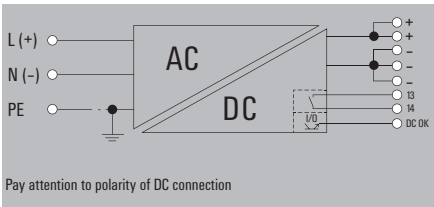
PROtop

- 1-phase power supplies

PRO TOP1 480 W 48 V 10 A



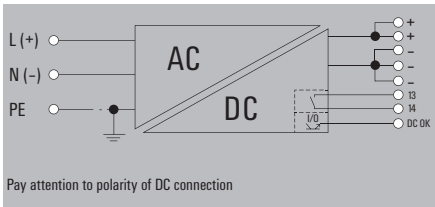
Similar to illustration



PRO TOP1 960 W 48 V 20 A



Similar to illustration



Technical data

Input
Rated input voltage
Input voltage range AC
Frequency range AC
DC input voltage range
Input fuse (internal) / Inrush current
Output
Rated output voltage
Output voltage
DCL - peak load reserve
Residual ripple, breaking spikes
Power reserve at nom. voltage
Rated (nominal) output current @ U_{Nom}
General data
Derating
Series switching capability
Degree of efficiency
Power factor (approx.)
AC failure bridging time @ I_{Nom}
LED green/red
Parallel connection option
Depth x width x height
Net weight
Approvals
Approvals

preliminary technical data!

100 - 240 V AC / 120 - 340 V DC
85...277 V AC
45...65 Hz
80 ... 410 V DC
Yes / max. 5 A
48 V DC $\pm$ 1 %
45...56 V
150 % (5 s); 600 % (12 ms)
< 50 mVss @ U_{Nem} , Full Load
130% permanent at $\leq 40^{\circ}\text{C}$
10 A @ 60°C
> 60°C (2.5% / 1°C)
Yes
typ. 93,5 %
> 0.90 @ 230 V AC
> 20 ms @ 230 V AC / > 20 ms @ 115 V AC
Green: Operation (failure-free), Flashing green: advance warning
I>90%, Green/red flashing: output switched off (switch-off mode),
Flashing red: overload/error
Passive Current Sharing
125 / 68 / 130 mm
1520 g

preliminary technical data!

100 - 240 V AC / 120 - 340 V DC
85...277 V AC
45...65 Hz
80 ... 410 V DC
Yes / max. 15 A
48 V DC $\pm$ 1 %
45...56 V
150 % (5 s); 500 % (12 ms)
< 50 mVss @ U_{Nem} , Full Load
130% permanent at $\leq 40^{\circ}\text{C}$
20 A @ 60°C
> 60°C (2.5% / 1°C)
Yes
typ. 94,5 %
> 0.90 @ 230 V AC
> 20 ms @ 230 V AC / > 20 ms @ 115 V AC
Green: Operation (failure-free), Flashing green: advance warning
I>90%, Green/red flashing: output switched off (switch-off mode),
Flashing red: overload/error
Passive Current Sharing
125 / 124 / 130 mm
3400 g

Connection data
Connection system
Number of terminals
Wire cross-section, rigid min/max
Wire cross-section, flexible min/max
Wire cross-section, AWG/kcmil min/max

Input	Output
PUSH IN	PUSH IN
3 for L/N/PE	5 (+ + / - -)
0.2 / 10	0.2 / 10
0.2 / 6	0.2 / 6
20 / 8	20 / 8

Input	Output
PUSH IN	PUSH IN
3 for L/N/PE	5 (+ + / - -)
0.75 / 16	0.75 / 16
0.75 / 16	0.75 / 16
20 / 4	20 / 4

Note

Ordering data

Type	Qty.	Order No.
------	------	-----------

Type	Qty.	Order No.
PRO TOP1 480W 48V 10A	1	2467030000

Type	Qty.	Order No.
PRO TOP1 960W 48V 20A	1	2466920000

Note

Current technical data on catalog.weidmueller.com

Current technical data on catalog.weidmueller.com

Accessories

Note

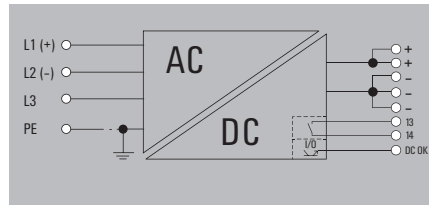
Note

Note

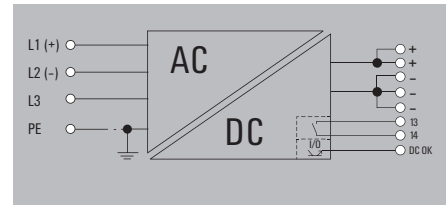
PROtop

- 3-phase power supplies

PRO TOP3 120 W 24 V 5 A



PRO TOP3 240 W 24 V 10 A



Technical data

Input
Rated input voltage
Input voltage range AC
Frequency range AC
DC input voltage range
Input fuse (internal) / Inrush current
Output
Rated output voltage
Output voltage
DCL - peak load reserve
Residual ripple, breaking spikes
Power reserve at nom. voltage
Rated (nominal) output current @ U_{nom}
General data
Derating
Series switching capability
Degree of efficiency
Power factor (approx.)
AC failure bridging time @ I_{nom}
LED green/red
Parallel connection option
Depth x width x height
Net weight
Approvals
Approvals

preliminary technical data!

3 x 400...3 x 500 V AC (wide-range input)
3 x 320...3 x 575 V AC / 2 x 360...2 x 575 V AC
45...65 Hz
450...800 V DC (max. 500 V DC acc. to UL508)
Yes
24 V DC $\pm 1\%$
22.5...29 V
150 % (5 s); 600 % (12 ms)
< 50 mVss @ U_{nom} , Full Load
130% permanent at $\leq 40^\circ\text{C}$
5 A @ 60°C
> 60°C (2.5% / 1°C)
Yes
> 0.90 @ 230 V AC
> 20 ms @ 230 V AC / > 20 ms @ 115 V AC
Green: Operation (failure-free), Flashing green: advance warning
I>90%, Green/red flashing: output switched off (switch-off mode),
Flashing red: overload/error
Passive Current Sharing
125 / 38 / 130 mm
865 g

preliminary technical data!

3 x 400...3 x 500 V AC (wide-range input)
3 x 320...3 x 575 V AC / 2 x 360...2 x 575 V AC
45...65 Hz
450...800 V DC (max. 500 V DC acc. to UL508)
Yes
24 V DC $\pm 1\%$
22.5...29 V
150 % (5 s); 600 % (12 ms)
< 50 mVss @ U_{nom} , Full Load
130% permanent at $\leq 40^\circ\text{C}$
10 A @ 60°C
> 60°C (2.5% / 1°C)
Yes
> 0.90 @ 230 V AC
> 20 ms @ 230 V AC / > 20 ms @ 115 V AC
Green: Operation (failure-free), Flashing green: advance warning
I>90%, Green/red flashing: output switched off (switch-off mode),
Flashing red: overload/error
Passive Current Sharing
125 / 49 / 130 mm
965 g

Connection data
Connection system
Number of terminals
Wire cross-section, rigid min/max
Wire cross-section, flexible min/max
Wire cross-section, AWG/kcmil min/max

Input	Output
PUSH IN with actuator	PUSH IN with actuator
4 for L1/L2/L3/PE	5 (+ / - / -)
0.5 / 1.5	0.2 / 2.5
0.5 / 2.5	0.2 / 2.5
20 / 12	26 / 12

Input	Output
PUSH IN with actuator	PUSH IN with actuator
4 for L1/L2/L3/PE	5 (+ / - / -)
0.5 / 1.5	0.2 / 2.5
0.5 / 2.5	0.2 / 2.5
20 / 12	26 / 12

Note

Note

Note

Ordering data

Type	Qty.	Order No.
------	------	-----------

Type	Qty.	Order No.
PRO TOP3 120W 24V 5A	1	2467060000

Type	Qty.	Order No.
PRO TOP3 240W 24V 10A	1	2467080000

Note

Note

Note

Accessories

Note

Note

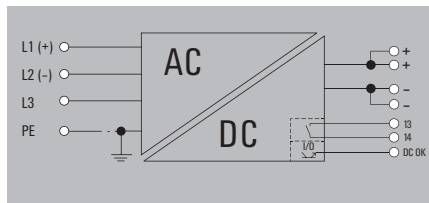
Note

PROtop power supplies to satisfy the highest demands

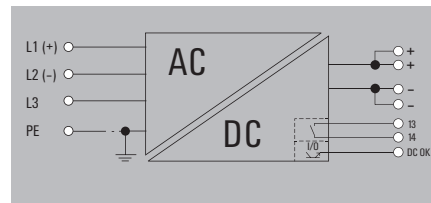
PROtop

- 3-phase power supplies

PRO TOP3 480 W 24 V 20 A



PRO TOP3 960 W 24 V 40 A



Technical data

Input
Rated input voltage
Input voltage range AC
Frequency range AC
DC input voltage range
Input fuse (internal) / Inrush current
Output
Rated output voltage
Output voltage
DCL - peak load reserve
Residual ripple, breaking spikes
Power reserve at nom. voltage
Rated (nominal) output current @ U_{Nom}
General data
Derating
Series switching capability
Degree of efficiency
Power factor (approx.)
AC failure bridging time @ I_{Nom}
LED green/red
Parallel connection option
Depth x width x height
Net weight
Approvals
Approvals

preliminary technical data!

3 x 400...3 x 500 V AC (wide-range input)
3 x 320...3 x 575 V AC / 2 x 360...2 x 575 V AC
45...65 Hz
450...800 V DC (max. 500 V DC acc. to UL508)
Yes
24 V DC $\pm 1\%$
22.5...29 V
150 % (5 s); 500 % (12 ms)
< 50 mVss @ U_{Nom} , Full Load
130% permanent at $\leq 40^\circ\text{C}$
20 A @ 60°C
> 60°C (2.5% / 1°C)
Yes
> 0.90 @ 230 V AC
> 20 ms @ 230 V AC / > 20 ms @ 115 V AC
Green: Operation (failure-free), Flashing green: advance warning
I>90%, Green/red flashing: output switched off (switch-off mode),
Flashing red: overload/error
Passive Current Sharing
125 / 68 / 130 mm
1450 g

preliminary technical data!

3 x 400...3 x 500 V AC (wide-range input)
3 x 320...3 x 575 V AC / 2 x 360...2 x 575 V AC
45...65 Hz
450...800 V DC (max. 500 V DC acc. to UL508)
Yes
24 V DC $\pm 1\%$
22.5...29 V
150 % (5 s); 300 % (12 ms)
< 50 mVss @ U_{Nom} , Full Load
130% permanent at $\leq 40^\circ\text{C}$
40 A @ 60°C
> 60°C (2.5% / 1°C)
Yes
> 0.90 @ 230 V AC
> 20 ms @ 230 V AC / > 20 ms @ 115 V AC
Green: Operation (failure-free), Flashing green: advance warning
I>90%, Green/red flashing: output switched off (switch-off mode),
Flashing red: overload/error
Passive Current Sharing
175 / 90 / 130 mm
2490 g

Connection data
Connection system
Number of terminals
Wire cross-section, rigid min/max
Wire cross-section, flexible min/max
Wire cross-section, AWG/kcmil min/max

Input	Output
PUSH IN	PUSH IN
4 for L1/L2/L3/PE	4 (++) / (-)
0.2 / 10	0.2 / 10
0.2 / 6	0.2 / 6
20 / 8	20 / 8

Input	Output
PUSH IN	PUSH IN
4 for L1/L2/L3/PE	4 (++) / (-)
0.75 / 16	0.75 / 16
0.75 / 16	0.75 / 16
20 / 4	20 / 4

Note

Note

Note

Ordering data

Type	Qty.	Order No.
------	------	-----------

Type	Qty.	Order No.
PRO TOP3 480W 24V 20A	1	2467100000

Type	Qty.	Order No.
PRO TOP3 960W 24V 40A	1	2467120000

Note

Current technical data on catalog.weidmueller.com

Current technical data on catalog.weidmueller.com

Accessories

Note

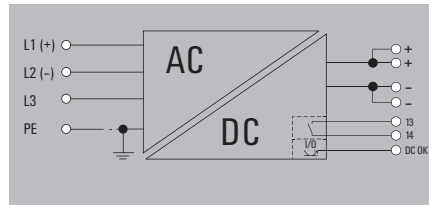
Note

Note

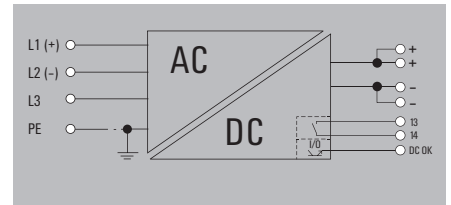
PROtop

- 3-phase power supplies

PRO TOP3 480 W 48 V 10 A



PRO TOP3 960 W 48 V 20 A



Technical data

Input
Rated input voltage
Input voltage range AC
Frequency range AC
DC input voltage range
Input fuse (internal) / Inrush current
Output
Rated output voltage
Output voltage
DCL - peak load reserve
Residual ripple, breaking spikes
Power reserve at nom. voltage
Rated (nominal) output current @ U_{nom}
General data
Derating
Series switching capability
Degree of efficiency
Power factor (approx.)
AC failure bridging time @ I_{nom}
LED green/red
Parallel connection option
Depth x width x height
Net weight
Approvals
Approvals

preliminary technical data!

3 x 400...3 x 500 V AC (wide-range input)
3 x 320...3 x 575 V AC / 2 x 360...2 x 575 V AC
45...65 Hz
450...800 V DC (max. 500 V DC acc. to UL508)
Yes
24 V DC $\pm 1\%$
45...56 V
150 % (5 s); 500 % (12 ms)
< 50 mVss @ U_{nom} , Full Load
130% permanent at $\leq 40^\circ\text{C}$
10 A @ 60°C
> 60°C (2.5% / 1°C)
No
> 0.90 @ 230 V AC
> 20 ms @ 230 V AC / > 20 ms @ 115 V AC
Green: Operation (failure-free), Flashing green: advance warning
I>90%, Green/red flashing: output switched off (switch-off mode),
Flashing red: overload/error
Passive Current Sharing
125 / 68 / 130 mm
1450 g

preliminary technical data!

3 x 400...3 x 500 V AC (wide-range input)
3 x 320...3 x 575 V AC / 2 x 360...2 x 575 V AC
45...65 Hz
450...800 V DC (max. 500 V DC acc. to UL508)
Yes
24 V DC $\pm 1\%$
45...56 V
150 % (5 s); 300 % (12 ms)
< 50 mVss @ U_{nom} , Full Load
130% permanent at $\leq 40^\circ\text{C}$
20 A @ 60°C
> 60°C (2.5% / 1°C)
No
> 0.90 @ 230 V AC
> 20 ms @ 230 V AC / > 20 ms @ 115 V AC
Green: Operation (failure-free), Flashing green: advance warning
I>90%, Green/red flashing: output switched off (switch-off mode),
Flashing red: overload/error
Passive Current Sharing
175 / 90 / 130 mm
2490 g

Connection data
Connection system
Number of terminals
Wire cross-section, rigid min/max
Wire cross-section, flexible min/max
Wire cross-section, AWG/kcmil min/max

Input	Output
PUSH IN	PUSH IN
4 for L1/L2/L3/PE	4 (++) / (-)
0.2 / 10	0.2 / 10
0.2 / 6	0.2 / 6
20 / 8	20 / 8

Input	Output
PUSH IN	PUSH IN
4 for L1/L2/L3/PE	4 (++) / (-)
0.75 / 16	0.75 / 16
0.75 / 16	0.75 / 16
20 / 4	20 / 4

Note

Note

Note

Ordering data

Type	Qty.	Order No.
------	------	-----------

Type	Qty.	Order No.
PRO TOP3 480W 48V 10A	1	2467150000

Type	Qty.	Order No.
PRO TOP3 960W 48V 20A	1	2467170000

Note

Note

Note

Accessories

Note

Note

Note

connectPower PROtop - Accessories

Small metal foot



Type	Order No.
MTA 30 MF	1251320000

Large metal foot



Type	Order No.
MTA 45 MF	1251310000

Small plastic foot



Type	Order No.
MTA 30 BK	1168970000

Large plastic foot



Type	Order No.
MTA 45 BK	1962250000

Small wall mounting



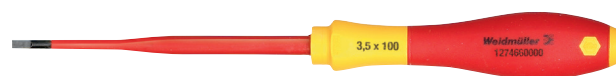
Type	Order No.
CP A WALLADAPTER 30 MM	1461870000

Large wall mounting



Type	Order No.
CP A WALLADAPTER 45 MM	1461850000

Screwdriver



Type	Blade type	Size/AF	a	b	c	Order No.
SDIS SL 0.6X3.5X100			0.6	3.5	100	1274660000
SDIS SL 0.8X4.0X100			0.8	4	100	1274670000

Markers



Type	Colour	Qty.	Order No.
SM 18/9.5 K MC NE WS	white	200	1248580000

Endwinkel

For DIN rail TS 35



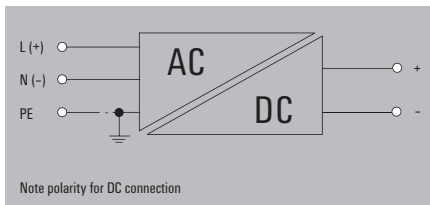
Polyamide with fibre glass, screwable	Colour	Torque	Qty.	Order No.
WEW 35/1 SW	black	1.2 Nm	50	1162600000

connectPower PRO-E

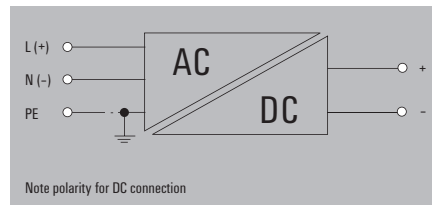
connectPower PRO-E



CP E SNT 25W 5V 5A



CP E SNT 25W 12V 2.1A



Technical data

Input	
Input voltage	
Input current	
Input frequency	
Input fuse (internal)	
Recommended back-up fuse	
Output	
Output voltage	
Output voltage adjustment	
Output current	
Output power	
Residual ripple, breaking spikes	
Overload protection	
Surge protection	
Mains failure bridge-over time	
Control at 10...100% load	
Parallel connection option	
Insulation coordination	
electrical isolation, output-earth	
electrical isolation, input-earth	
electrical isolation, input-output	
General data	
Ambient temperature (operational)	
Storage temperature	
Max. perm. air humidity (operational)	
Degree of efficiency	
Status indicator	
Standards	
EMC standards	
Mounting position, installation notice	
Net weight	
Approvals	
Screw connection	
Connection cross-section, solid, min. / max.	
Depth x width x height	
Note	

Input voltage	85...264 V AC / 110...370 V DC
Input current	0.3 A @ 230 V AC / 0.6 A @ 120 V AC
Input frequency	47...63 Hz
Input fuse (internal)	yes / max. 20A
Recommended back-up fuse	1 A at 230 V AC, characteristic curve C
Output voltage	5 V DC
Output voltage adjustment	± 10% nominal output voltage tolerance, adjustable with potentiometer
Output current	5 A@5 V DC
Output power	25 W
Residual ripple, breaking spikes	< 100 mV _{pp}
Overload protection	120~150% I _{konst.} of max. output power, automatic restart
Surge protection	5.6...6.8 V @ 5 V DC
Mains failure bridge-over time	20 ms
Control at 10...100% load	0.5%
Parallel connection option	Recommended with diode module
electrical isolation, output-earth	0.5 kV
electrical isolation, input-earth	1.5 kV
electrical isolation, input-output	3 kV
Ambient temperature (operational)	-20°C...70°C (>50°C derating, refer derated curve); 70% rated load@70°C
Storage temperature	-20 °C...85 °C
Max. perm. air humidity (operational)	5 %...95 % RH
Degree of efficiency	77 % @ 5 V DC
Status indicator	Operation, green LED
Standards	EN 60950
EMC standards	EN 55011, EN 55022, EN 55024, EN 61000-6 /-2, -3
Mounting position, installation notice	Panel mount, screw fix
Net weight	157 g
Approvals	CE; cURus; EAC
Connection cross-section, solid, min. / max.	0.34 / 4 mm ²
Depth x width x height	91 / 51 / 28 mm

Input voltage	85...264 V AC / 110...370 V DC
Input current	0.3 A @ 230 V AC / 0.6 A @ 120 V AC
Input frequency	47...63 Hz
Input fuse (internal)	yes / max. 20A
Recommended back-up fuse	1 A at 230 V AC, characteristic curve C
Output voltage	12 V DC
Output voltage adjustment	± 10% nominal output voltage tolerance, adjustable with potentiometer
Output current	2.1 A@12 V DC
Output power	25 W
Residual ripple, breaking spikes	< 100 mV _{pp}
Overload protection	120~150% I _{konst.} of max. output power, automatic restart
Surge protection	13.5...16.2 V @ 12 V DC
Mains failure bridge-over time	20 ms
Control at 10...100% load	0.5%
Parallel connection option	Recommended with diode module
electrical isolation, output-earth	0.5 kV
electrical isolation, input-earth	1.5 kV
electrical isolation, input-output	3 kV
Ambient temperature (operational)	-20°C...70°C (>50°C derating, refer derated curve); 70% rated load@70°C
Storage temperature	-20 °C...85 °C
Max. perm. air humidity (operational)	5 %...95 % RH
Degree of efficiency	79 % @ 12 V DC
Status indicator	Operation, green LED
Standards	EN 60950
EMC standards	EN 55011, EN 55022, EN 55024, EN 61000-6 /-2, -3
Mounting position, installation notice	Panel mount, screw fix
Net weight	154 g
Approvals	CE; cURus; EAC
Connection cross-section, solid, min. / max.	0.34 / 4 mm ²
Depth x width x height	91 / 51 / 28 mm

Ordering data

Type	Qty.	Order No.
------	------	-----------

Type	Qty.	Order No.
CP E SNT 25W 5V 5A	1	1202640000

Type	Qty.	Order No.
CP E SNT 25W 12V 2.1A	1	1202630000

Note

The internal varistor found in a switch-mode power supply does not replace the necessary surge protection in a system.
--

The internal varistor found in a switch-mode power supply does not replace the necessary surge protection in a system.
--

Accessories

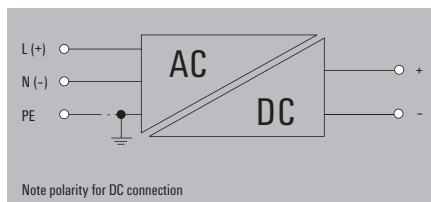
Note

Note

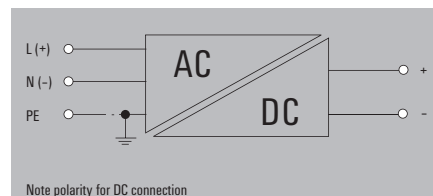
Note

connectPower
PRO-E

CP E SNT 25W 24V 1.1A



CP E SNT 25W 48V 0.57A



Technical data

Input	
Input voltage	
Input current	
Input frequency	
Input fuse (internal)	
Recommended back-up fuse	
Output	
Output voltage	
Output voltage adjustment	
Output current	
Output power	
Residual ripple, breaking spikes	
Overload protection	
Surge protection	
Mains failure bridge-over time	
Control at 10...100% load	
Parallel connection option	
Insulation coordination	
electrical isolation, output-earth	
electrical isolation, input-earth	
electrical isolation, input-output	
General data	
Ambient temperature (operational)	
Storage temperature	
Max. perm. air humidity (operational)	
Degree of efficiency	
Status indicator	
Standards	
EMC standards	
Mounting position, installation notice	
Net weight	
Approvals	
Screw connection	
Connection cross-section, solid, min. / max.	
Depth x width x height	
Note	

Input voltage	85...264 V AC / 110...370 V DC
Input current	0.3 A @ 230 V AC / 0.6 A @ 120 V AC
Input frequency	47...63 Hz
Input fuse (internal)	yes / max. 20A
Recommended back-up fuse	1 A at 230 V AC, characteristic curve C
Output voltage	24 V DC
Output voltage adjustment	± 10% nominal output voltage tolerance, adjustable with potentiometer
Output current	1.1 A@24 V DC
Output power	25 W
Residual ripple, breaking spikes	< 100 mV _{pp}
Overload protection	120~150% I _{konst.} of max. output power, automatic restart
Surge protection	28...32 V @ 24 V DC
Mains failure bridge-over time	20 ms
Control at 10...100% load	0.5%
Parallel connection option	Recommended with diode module
electrical isolation, output-earth	0.5 kV
electrical isolation, input-earth	1.5 kV
electrical isolation, input-output	3 kV
Ambient temperature (operational)	-20°C...70°C (>50°C derating, refer derated curve); 70% rated load@70°C
Storage temperature	-20 °C...85 °C
Max. perm. air humidity (operational)	5 %...95 % RH
Degree of efficiency	84 % @ 24 V DC
Status indicator	Operation, green LED
Standards	EN 60950
EMC standards	EN 55011, EN 55022, EN 55024, EN 61000-6 /-2, -3
Mounting position, installation notice	Panel mount, screw fix
Net weight	151 g
Approvals	CE; cURus; EAC
Connection cross-section, solid, min. / max.	0.34 / 4 mm ²
Depth x width x height	91 / 51 / 28 mm

Input voltage	85...264 V AC / 110...370 V DC
Input current	0.3 A @ 230 V AC / 0.6 A @ 120 V AC
Input frequency	47...63 Hz
Input fuse (internal)	yes / max. 20A
Recommended back-up fuse	1 A at 230 V AC, characteristic curve C
Output voltage	48 V DC
Output voltage adjustment	± 10% nominal output voltage tolerance, adjustable with potentiometer
Output current	0.57 A@48 V DC
Output power	25 W
Residual ripple, breaking spikes	< 100 mV _{pp}
Overload protection	120~150% I _{konst.} of max. output power, automatic restart
Surge protection	55...62 V @ 48 V DC
Mains failure bridge-over time	20 ms
Control at 10...100% load	0.5%
Parallel connection option	Recommended with diode module
electrical isolation, output-earth	0.5 kV
electrical isolation, input-earth	1.5 kV
electrical isolation, input-output	3 kV
Ambient temperature (operational)	-20°C...70°C (>50°C derating, refer derated curve); 70% rated load@70°C
Storage temperature	-20 °C...85 °C
Max. perm. air humidity (operational)	5 %...95 % RH
Degree of efficiency	83 % @ 48 V DC
Status indicator	Operation, green LED
Standards	EN 60950
EMC standards	EN 55011, EN 55022, EN 55024, EN 61000-6 /-2, -3
Mounting position, installation notice	Panel mount, screw fix
Net weight	156 g
Approvals	CE; cURus; EAC
Connection cross-section, solid, min. / max.	0.34 / 4 mm ²
Depth x width x height	91 / 51 / 28 mm

Ordering data

Type	Qty.	Order No.
------	------	-----------

Type	Qty.	Order No.
CP E SNT 25W 24V 1.1A	1	1202620000

Type	Qty.	Order No.
CP E SNT 25W 48V 0.57A	1	1202610000

Note

Note
The internal varistor found in a switch-mode power supply does not replace the necessary surge protection in a system.

Note
The internal varistor found in a switch-mode power supply does not replace the necessary surge protection in a system.

Accessories

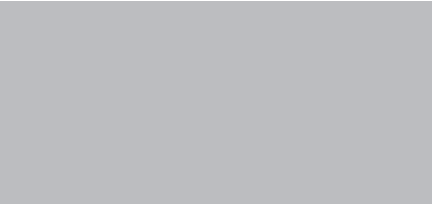
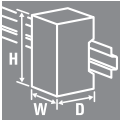
Note

Note

Note

connectPower PRO-E

connectPower
PRO-E



Technical data

Input	
Input voltage	
Input current	
Input frequency	
Input fuse (internal)	
Recommended back-up fuse	
Output	
Output voltage	
Output voltage adjustment	
Output current	
Output power	
Residual ripple, breaking spikes	
Overload protection	
Surge protection	
Mains failure bridge-over time	
Control at 10...100% load	
Parallel connection option	
Insulation coordination	
electrical isolation, output-earth	
electrical isolation, input-earth	
electrical isolation, input-output	
General data	
Ambient temperature (operational)	
Storage temperature	
Max. perm. air humidity (operational)	
Degree of efficiency	
Status indicator	
Standards	
EMC standards	
Mounting position, installation notice	
Net weight	
Approvals	
Screw connection	
Connection cross-section, solid, min. / max.	
Depth x width x height	
Note	

Ordering data

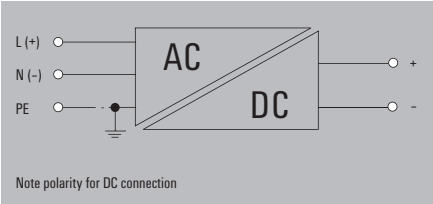
Type	Qty.	Order No.
------	------	-----------

Note

Accessories

Note

CP E SNT 50W 5V 10A



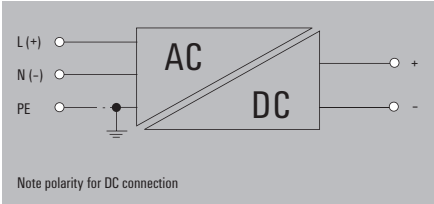
Input voltage	85...264 V AC / 110...370 V DC
Input current	0.6 A @ 230 V AC / 1.2 A @ 120 V AC
Input frequency	47...63 Hz
Input fuse (internal)	yes / max. 20A
Recommended back-up fuse	2 A at 230 V AC, characteristic curve C
Output	
Output voltage	5 V DC
Output voltage adjustment	± 10% nominal output voltage tolerance, adjustable with potentiometer
Output current	10 A@5 V DC
Output power	50 W
Residual ripple, breaking spikes	< 100 mV _{pp}
Overload protection	120~150% I _{konst.} of max. output power, automatic restart
Surge protection	5.6...6.8 V @ 5 V DC
Mains failure bridge-over time	20 ms
Control at 10...100% load	0.5%
Parallel connection option	Recommended with diode module
Insulation coordination	
electrical isolation, output-earth	0.5 kV
electrical isolation, input-earth	1.5 kV
electrical isolation, input-output	3 kV
General data	
Ambient temperature (operational)	-20°C...70°C (>50°C derating, refer derated curve); 70% rated load@70°C
Storage temperature	-20 °C...85 °C
Max. perm. air humidity (operational)	5 %...95 % RH
Degree of efficiency	78 % @ 5 V DC
Status indicator	Operation, green LED
Standards	EN 60950
EMC standards	EN 55011, EN 55022, EN 55024, EN 61000-6 /-2, -3
Mounting position, installation notice	Panel mount, screw fix
Net weight	333 g
Approvals	CE; cURus; EAC
Screw connection	
Connection cross-section, solid, min. / max.	0.34 / 4 mm ²
Depth x width x height	105 / 100 / 35 mm
Note	

Type	Qty.	Order No.
------	------	-----------

Note

Note

CP E SNT 50 W 12V 4.2A



Input voltage	85...264 V AC / 110...370 V DC
Input current	0.6 A @ 230 V AC / 1.2 A @ 120 V AC
Input frequency	47...63 Hz
Input fuse (internal)	yes / max. 20A
Recommended back-up fuse	2 A at 230 V AC, characteristic curve C
Output	
Output voltage	12 V DC
Output voltage adjustment	± 10% nominal output voltage tolerance, adjustable with potentiometer
Output current	4.2 A@12 V DC
Output power	50 W
Residual ripple, breaking spikes	< 100 mV _{pp}
Overload protection	120~150% I _{konst.} of max. output power, automatic restart
Surge protection	13.5...16.2 V @ 12 V DC
Mains failure bridge-over time	20 ms
Control at 10...100% load	0.5%
Parallel connection option	Recommended with diode module
Insulation coordination	
electrical isolation, output-earth	0.5 kV
electrical isolation, input-earth	1.5 kV
electrical isolation, input-output	3 kV
General data	
Ambient temperature (operational)	-20°C...70°C (>50°C derating, refer derated curve); 70% rated load@70°C
Storage temperature	-20 °C...85 °C
Max. perm. air humidity (operational)	5 %...95 % RH
Degree of efficiency	81 % @ 12 V DC
Status indicator	Operation, green LED
Standards	EN 60950
EMC standards	EN 55011, EN 55022, EN 55024, EN 61000-6 /-2, -3
Mounting position, installation notice	Panel mount, screw fix
Net weight	331 g
Approvals	CE; cURus; EAC
Screw connection	
Connection cross-section, solid, min. / max.	0.34 / 4 mm ²
Depth x width x height	105 / 100 / 35 mm
Note	

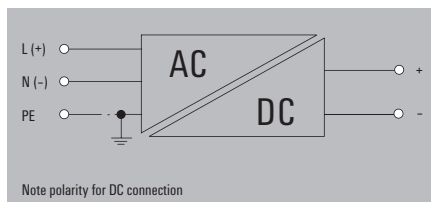
Type	Qty.	Order No.
------	------	-----------

Note

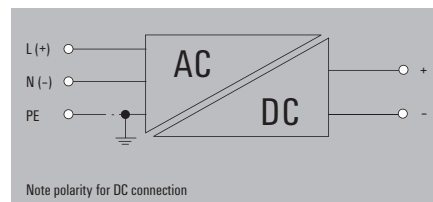
Note

connectPower
PRO-E

CP E SNT 50W 24V 2.2A



CP E SNT 50W 48V 1.1A



Technical data

Input	
Input voltage	
Input current	
Input frequency	
Input fuse (internal)	
Recommended back-up fuse	
Output	
Output voltage	
Output voltage adjustment	
Output current	
Output power	
Residual ripple, breaking spikes	
Overload protection	
Surge protection	
Mains failure bridge-over time	
Control at 10...100% load	
Parallel connection option	
Insulation coordination	
electrical isolation, output-earth	
electrical isolation, input-earth	
electrical isolation, input-output	
General data	
Ambient temperature (operational)	
Storage temperature	
Max. perm. air humidity (operational)	
Degree of efficiency	
Status indicator	
Standards	
EMC standards	
Mounting position, installation notice	
Net weight	
Approvals	
Screw connection	
Connection cross-section, solid, min. / max.	
Depth x width x height	
Note	

Input voltage	85...264 V AC / 110...370 V DC
Input current	0.6 A @ 230 V AC / 1.2 A @ 120 V AC
Input frequency	47...63 Hz
Input fuse (internal)	yes / max. 20A
Recommended back-up fuse	2 A at 230 V AC, characteristic curve C
Output voltage	24 V DC
Output voltage adjustment	± 10% nominal output voltage tolerance, adjustable with potentiometer
Output current	2.2 A @ 24 V DC
Output power	50 W
Residual ripple, breaking spikes	< 100 mV _{pp}
Overload protection	120~150% I _{konst.} of max. output power, automatic restart
Surge protection	28...32 V @ 24 V DC
Mains failure bridge-over time	20 ms
Control at 10...100% load	0.5%
Parallel connection option	Recommended with diode module
electrical isolation, output-earth	0.5 kV
electrical isolation, input-earth	1.5 kV
electrical isolation, input-output	3 kV
Ambient temperature (operational)	-20°C...70°C (>50°C derating, refer derated curve); 70% rated load @ 70°C
Storage temperature	-20 °C...85 °C
Max. perm. air humidity (operational)	5 %...95 % RH
Degree of efficiency	84 % @ 24 V DC
Status indicator	Operation, green LED
Standards	EN 60950
EMC standards	EN 55011, EN 55022, EN 55024, EN 61000-6 /-2, -3
Mounting position, installation notice	Panel mount, screw fix
Net weight	320 g
Approvals	CE; cURus; EAC
Connection cross-section, solid, min. / max.	0.34 / 4 mm ²
Depth x width x height	105 / 100 / 35 mm

Input voltage	85...264 V AC / 110...370 V DC
Input current	0.6 A @ 230 V AC / 1.2 A @ 120 V AC
Input frequency	47...63 Hz
Input fuse (internal)	yes / max. 20A
Recommended back-up fuse	2 A at 230 V AC, characteristic curve C
Output voltage	48 V DC
Output voltage adjustment	± 10% nominal output voltage tolerance, adjustable with potentiometer
Output current	1.1 A @ 48 V DC
Output power	50 W
Residual ripple, breaking spikes	< 100 mV _{pp}
Overload protection	120~150% I _{konst.} of max. output power, automatic restart
Surge protection	55...62 V @ 48 V DC
Mains failure bridge-over time	20 ms
Control at 10...100% load	0.5%
Parallel connection option	Recommended with diode module
electrical isolation, output-earth	0.5 kV
electrical isolation, input-earth	1.5 kV
electrical isolation, input-output	3 kV
Ambient temperature (operational)	-20°C...70°C (>50°C derating, refer derated curve); 70% rated load @ 70°C
Storage temperature	-20 °C...85 °C
Max. perm. air humidity (operational)	5 %...95 % RH
Degree of efficiency	86 % @ 48 V DC
Status indicator	Operation, green LED
Standards	EN 60950
EMC standards	EN 55011, EN 55022, EN 55024, EN 61000-6 /-2, -3
Mounting position, installation notice	Panel mount, screw fix
Net weight	340 g
Approvals	CE; cURus; EAC
Connection cross-section, solid, min. / max.	0.34 / 4 mm ²
Depth x width x height	105 / 100 / 35 mm

Ordering data

Type	Qty.	Order No.
------	------	-----------

Type	Qty.	Order No.
CP E SNT 50W 24V 2.2A	1	1202450000

Type	Qty.	Order No.
CP E SNT 50W 48V 1.1A	1	1202460000

Note

The internal varistor found in a switch-mode power supply does not replace the necessary surge protection in a system.
--

The internal varistor found in a switch-mode power supply does not replace the necessary surge protection in a system.
--

Accessories

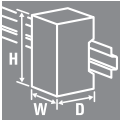
Note

Note

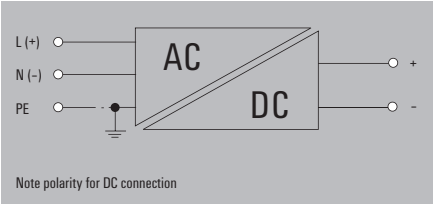
Note

connectPower PRO-E

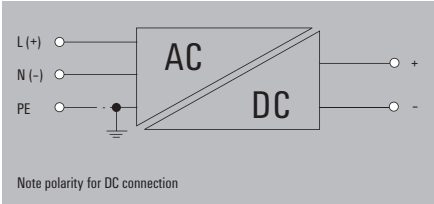
connectPower
PRO-E



CP E SNT 75W 5V 12A



CP E SNT 75W 12V 6A



Technical data

Input	
Input voltage	
Input current	
Input frequency	
Input fuse (internal)	
Recommended back-up fuse	
Output	
Output voltage	
Output voltage adjustment	
Output current	
Output power	
Residual ripple, breaking spikes	
Overload protection	
Surge protection	
Mains failure bridge-over time	
Control at 10...100% load	
Parallel connection option	
Insulation coordination	
electrical isolation, output-earth	
electrical isolation, input-earth	
electrical isolation, input-output	
General data	
Ambient temperature (operational)	
Storage temperature	
Max. perm. air humidity (operational)	
Degree of efficiency	
Status indicator	
Standards	
EMC standards	
Mounting position, installation notice	
Net weight	
Approvals	
Screw connection	
Connection cross-section, solid, min. / max.	
Depth x width x height	
Note	

Input voltage	85...264 V AC / 110...370 V DC
Input current	1 A @ 230 V AC / 2 A @ 120 V AC
Input frequency	47...63 Hz
Input fuse (internal)	yes / max. 20A
Recommended back-up fuse	4 A at 230 V AC, characteristic curve C
Output voltage	5 V DC
Output voltage adjustment	± 10% nominal output voltage tolerance, adjustable with potentiometer
Output current	12 A@5 V DC
Output power	75 W
Residual ripple, breaking spikes	< 100 mV _{pp}
Overload protection	120~150% I _{konst.} of max. output power, automatic restart
Surge protection	5.6...6.8 V @ 5 V DC
Mains failure bridge-over time	20 ms
Control at 10...100% load	0.5%
Parallel connection option	Recommended with diode module
electrical isolation, output-earth	0.5 kV
electrical isolation, input-earth	1.5 kV
electrical isolation, input-output	3 kV
Ambient temperature (operational)	-20°C...70°C (>50°C derating, refer derated curve); 70% rated load@70°C
Storage temperature	-20 °C...85 °C
Max. perm. air humidity (operational)	5 %...95 % RH
Degree of efficiency	76 % @ 5 V DC
Status indicator	Operation, green LED
Standards	EN 60950
EMC standards	EN 55011, EN 55022, EN 55024, EN 61000-6 /-2, -3
Mounting position, installation notice	Panel mount, screw fix
Net weight	430 g
Approvals	CE; cURus; EAC
Connection cross-section, solid, min. / max.	0.34 / 4 mm ²
Depth x width x height	135 / 98.5 / 40 mm
The internal varistor found in a switch-mode power supply does not replace the necessary surge protection in a system.	

Input voltage	85...264 V AC / 110...370 V DC
Input current	1 A @ 230 V AC / 2 A @ 120 V AC
Input frequency	47...63 Hz
Input fuse (internal)	yes / max. 20A
Recommended back-up fuse	4 A at 230 V AC, characteristic curve C
Output voltage	12 V DC
Output voltage adjustment	± 10% nominal output voltage tolerance, adjustable with potentiometer
Output current	6 A@12 V DC
Output power	75 W
Residual ripple, breaking spikes	< 100 mV _{pp}
Overload protection	120~150% I _{konst.} of max. output power, automatic restart
Surge protection	13.5...16.2 V @ 12 V DC
Mains failure bridge-over time	20 ms
Control at 10...100% load	0.5%
Parallel connection option	Recommended with diode module
electrical isolation, output-earth	0.5 kV
electrical isolation, input-earth	1.5 kV
electrical isolation, input-output	3 kV
Ambient temperature (operational)	-20°C...70°C (>50°C derating, refer derated curve); 70% rated load@70°C
Storage temperature	-20 °C...85 °C
Max. perm. air humidity (operational)	5 %...95 % RH
Degree of efficiency	81 % @ 12 V DC
Status indicator	Operation, green LED
Standards	EN 60950
EMC standards	EN 55011, EN 55022, EN 55024, EN 61000-6 /-2, -3
Mounting position, installation notice	Panel mount, screw fix
Net weight	400 g
Approvals	CE; cURus; EAC
Connection cross-section, solid, min. / max.	0.34 / 4 mm ²
Depth x width x height	135 / 98.5 / 40 mm
The internal varistor found in a switch-mode power supply does not replace the necessary surge protection in a system.	

Ordering data

Type	Qty.	Order No.
------	------	-----------

Type	Qty.	Order No.
CP E SNT 75W 5V 12A	1	1202470000

Type	Qty.	Order No.
CP E SNT 75W 12V 6A	1	1202480000

Note

The internal varistor found in a switch-mode power supply does not replace the necessary surge protection in a system.
--

The internal varistor found in a switch-mode power supply does not replace the necessary surge protection in a system.
--

Accessories

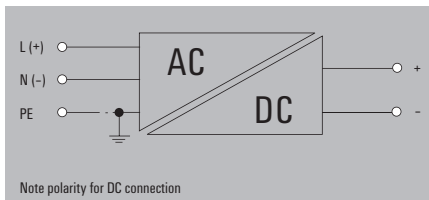
Note

--

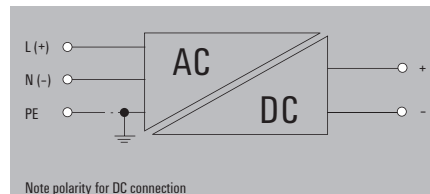
--

connectPower
PRO-E

CP E SNT 75W 24V 3.2A



CP E SNT 75W 48V 1.6A



Technical data

Input	
Input voltage	
Input current	
Input frequency	
Input fuse (internal)	
Recommended back-up fuse	
Output	
Output voltage	
Output voltage adjustment	
Output current	
Output power	
Residual ripple, breaking spikes	
Overload protection	
Surge protection	
Mains failure bridge-over time	
Control at 10...100% load	
Parallel connection option	
Insulation coordination	
electrical isolation, output-earth	
electrical isolation, input-earth	
electrical isolation, input-output	
General data	
Ambient temperature (operational)	
Storage temperature	
Max. perm. air humidity (operational)	
Degree of efficiency	
Status indicator	
Standards	
EMC standards	
Mounting position, installation notice	
Net weight	
Approvals	
Screw connection	
Connection cross-section, solid, min. / max.	
Depth x width x height	
Note	

Input voltage	85...264 V AC / 110...370 V DC
Input current	1 A @ 230 V AC / 2 A @ 120 V AC
Input frequency	47...63 Hz
Input fuse (internal)	yes / max. 20A
Recommended back-up fuse	4 A at 230 V AC, characteristic curve C
Output voltage	24 V DC
Output voltage adjustment	± 10% nominal output voltage tolerance, adjustable with potentiometer
Output current	3.2 A@24 V DC
Output power	75 W
Residual ripple, breaking spikes	< 100 mV _{pp}
Overload protection	120~150% I _{konst.} of max. output power, automatic restart
Surge protection	28...32 V @ 24 V DC
Mains failure bridge-over time	20 ms
Control at 10...100% load	0.5%
Parallel connection option	Recommended with diode module
electrical isolation, output-earth	0.5 kV
electrical isolation, input-earth	1.5 kV
electrical isolation, input-output	3 kV
Ambient temperature (operational)	-20°C...70°C (>50°C derating, refer derated curve); 70% rated load@70°C
Storage temperature	-20 °C...85 °C
Max. perm. air humidity (operational)	5 %...95 % RH
Degree of efficiency	85 % @ 24 V DC
Status indicator	Operation, green LED
Standards	EN 60950
EMC standards	EN 55011, EN 55022, EN 55024, EN 61000-6 /-2, -3
Mounting position, installation notice	Panel mount, screw fix
Net weight	422 g
Approvals	CE; cURus; EAC
Connection cross-section, solid, min. / max.	0.34 / 4 mm ²
Depth x width x height	135 / 98.5 / 40 mm

Input voltage	85...264 V AC / 110...370 V DC
Input current	1 A @ 230 V AC / 2 A @ 120 V AC
Input frequency	47...63 Hz
Input fuse (internal)	yes / max. 20A
Recommended back-up fuse	4 A at 230 V AC, characteristic curve C
Output voltage	48 V DC
Output voltage adjustment	± 10% nominal output voltage tolerance, adjustable with potentiometer
Output current	1.6 A@48 V DC
Output power	75 W
Residual ripple, breaking spikes	< 100 mV _{pp}
Overload protection	120~150% I _{konst.} of max. output power, automatic restart
Surge protection	55...62 V @ 48 V DC
Mains failure bridge-over time	20 ms
Control at 10...100% load	0.5%
Parallel connection option	Recommended with diode module
electrical isolation, output-earth	0.5 kV
electrical isolation, input-earth	1.5 kV
electrical isolation, input-output	3 kV
Ambient temperature (operational)	-20°C...70°C (>50°C derating, refer derated curve); 70% rated load@70°C
Storage temperature	-20 °C...85 °C
Max. perm. air humidity (operational)	5 %...95 % RH
Degree of efficiency	86 % @ 48 V DC
Status indicator	Operation, green LED
Standards	EN 60950
EMC standards	EN 55011, EN 55022, EN 55024, EN 61000-6 /-2, -3
Mounting position, installation notice	Panel mount, screw fix
Net weight	408 g
Approvals	CE; cURus; EAC
Connection cross-section, solid, min. / max.	0.34 / 4 mm ²
Depth x width x height	135 / 98.5 / 40 mm

Ordering data

Type	Qty.	Order No.
------	------	-----------

Type	Qty.	Order No.
CP E SNT 75W 24V 3.2A	1	1202490000

Type	Qty.	Order No.
CP E SNT 75W 48V 1.6A	1	1202510000

Note

The internal varistor found in a switch-mode power supply does not replace the necessary surge protection in a system.
--

The internal varistor found in a switch-mode power supply does not replace the necessary surge protection in a system.
--

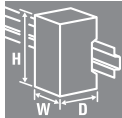
Accessories

Note

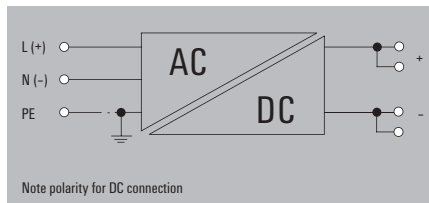
Note

Note

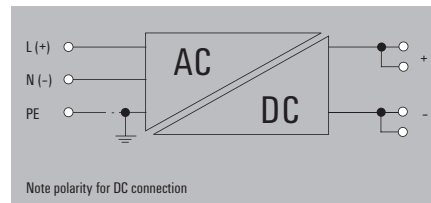
connectPower PRO-E

connectPower
PRO-E

CP E SNT 100W 5V 16A



CP E SNT 100W 12V 8.5A



Technical data

Input	
Input voltage	
Input current	
Input frequency	
Input fuse (internal)	
Recommended back-up fuse	
Output	
Output voltage	
Output voltage adjustment	
Output current	
Output power	
Residual ripple, breaking spikes	
Overload protection	
Surge protection	
Mains failure bridge-over time	
Control at 10...100% load	
Parallel connection option	
Insulation coordination	
electrical isolation, output-earth	
electrical isolation, input-earth	
electrical isolation, input-output	
General data	
Ambient temperature (operational)	
Storage temperature	
Max. perm. air humidity (operational)	
Degree of efficiency	
Status indicator	
Standards	
EMC standards	
Mounting position, installation notice	
Net weight	
Approvals	
Screw connection	
Connection cross-section, solid, min. / max.	
Depth x width x height	
Note	

Input voltage	88...132 V AC / 176...264 V AC optional / 250...370 V DC
Input current	1.5 A @ 230 V AC / 3 A @ 120 V AC
Input frequency	47...63 Hz
Input fuse (internal)	yes / max. 20A
Recommended back-up fuse	4 A at 230 V AC, characteristic curve C
Output voltage	5 V DC
Output voltage adjustment	± 10% nominal output voltage tolerance, adjustable with potentiometer
Output current	16 A @ 5 V DC
Output power	100 W
Residual ripple, breaking spikes	< 100 mV _{pp}
Overload protection	120~150% I _{konst.} of max. output power, automatic restart
Surge protection	5.6...6.8 V @ 5 V DC
Mains failure bridge-over time	20 ms
Control at 10...100% load	0.5%
Parallel connection option	Recommended with diode module
electrical isolation, output-earth	0.5 kV
electrical isolation, input-earth	1.5 kV
electrical isolation, input-output	3 kV
Ambient temperature (operational)	-20°C...70°C (>50°C derating, refer derated curve); 70% rated load @ 70°C
Storage temperature	-20 °C...85 °C
Max. perm. air humidity (operational)	5 %...95 % RH
Degree of efficiency	77 % @ 5 V DC
Status indicator	Operation, green LED
Standards	EN 60950
EMC standards	EN 55011, EN 55022, EN 55024, EN 61000-6 /-2, -3
Mounting position, installation notice	Panel mount, screw fix
Net weight	551 g
Approvals	CE; cURus; EAC
Connection cross-section, solid, min. / max.	0.34 / 4 mm ²
Depth x width x height	164 / 97.5 / 40 mm

Input voltage	88...132 V AC / 176...264 V AC optional / 250...370 V DC
Input current	1.5 A @ 230 V AC / 3 A @ 120 V AC
Input frequency	47...63 Hz
Input fuse (internal)	yes / max. 20A
Recommended back-up fuse	4 A at 230 V AC, characteristic curve C
Output voltage	12 V DC
Output voltage adjustment	± 10% nominal output voltage tolerance, adjustable with potentiometer
Output current	8.5 A @ 12 V DC
Output power	100 W
Residual ripple, breaking spikes	< 100 mV _{pp}
Overload protection	120~150% I _{konst.} of max. output power, automatic restart
Surge protection	13.5...16.2 V @ 12 V DC
Mains failure bridge-over time	20 ms
Control at 10...100% load	0.5%
Parallel connection option	Recommended with diode module
electrical isolation, output-earth	0.5 kV
electrical isolation, input-earth	1.5 kV
electrical isolation, input-output	3 kV
Ambient temperature (operational)	-20°C...70°C (>50°C derating, refer derated curve); 70% rated load @ 70°C
Storage temperature	-20 °C...85 °C
Max. perm. air humidity (operational)	5 %...95 % RH
Degree of efficiency	81 % @ 12 V DC
Status indicator	Operation, green LED
Standards	EN 60950
EMC standards	EN 55011, EN 55022, EN 55024, EN 61000-6 /-2, -3
Mounting position, installation notice	Panel mount, screw fix
Net weight	548 g
Approvals	CE; cURus; EAC
Connection cross-section, solid, min. / max.	0.34 / 4 mm ²
Depth x width x height	164 / 97.5 / 40 mm

Ordering data

Type	Qty.	Order No.
------	------	-----------

Type	Qty.	Order No.
CP E SNT 100W 5V 16A	1	1165820000

Type	Qty.	Order No.
CP E SNT 100W 12V 8.5A	1	1165830000

Note

The internal varistor found in a switch-mode power supply does not replace the necessary surge protection in a system.
--

The internal varistor found in a switch-mode power supply does not replace the necessary surge protection in a system.
--

Accessories

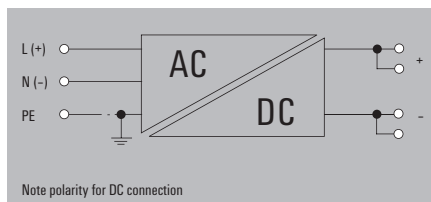
Note

Note

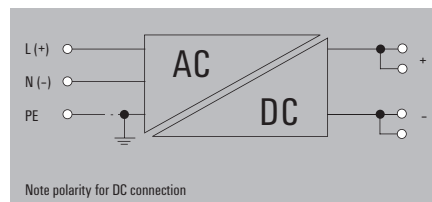
Note

connectPower
PRO-E

CP E SNT 100W 24V 4.5A



CP E SNT 100W 48V 2.3A



Technical data

Input	
Input voltage	Input voltage 88...132 V AC / 176...264 V AC optional / 250...370 V DC
Input current	1.5 A @ 230 V AC / 3 A @ 120 V AC
Input frequency	47...63 Hz
Input fuse (internal)	yes / max. 20A
Recommended back-up fuse	4 A at 230 V AC, characteristic curve C
Output	
Output voltage	24 V DC
Output voltage adjustment	± 10% nominal output voltage tolerance, adjustable with potentiometer
Output current	4.5 A @ 24 V DC
Output power	100 W
Residual ripple, breaking spikes	< 100 mV _{pp}
Overload protection	120~150% I _{konst.} of max. output power, automatic restart
Surge protection	28...32 V @ 24 V DC
Mains failure bridge-over time	20 ms
Control at 10...100% load	0.5%
Parallel connection option	Recommended with diode module
Insulation coordination	
electrical isolation, output-earth	0.5 kV
electrical isolation, input-earth	1.5 kV
electrical isolation, input-output	3 kV
General data	
Ambient temperature (operational)	Ambient temperature (operational) -20°C...70°C (>50°C derating, refer derated curve); 70% rated load @ 70°C
Storage temperature	-20 °C...85 °C
Max. perm. air humidity (operational)	5 %...95 % RH
Degree of efficiency	85 % @ 24 V DC
Status indicator	Operation, green LED
Standards	EN 60950
EMC standards	EN 55011, EN 55022, EN 55024, EN 61000-6 /-2, -3
Mounting position, installation notice	Panel mount, screw fix
Net weight	527 g
Approvals	CE; cURus; EAC
Screw connection	
Connection cross-section, solid, min. / max.	0.34 / 4 mm ²
Depth x width x height	164 / 97.5 / 40 mm
Note	

Ordering data

Type	Qty.	Order No.
CP E SNT 100W 24V 4.5A	1	1165840000

Note

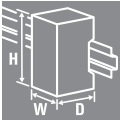
The internal varistor found in a switch-mode power supply does not replace the necessary surge protection in a system.

Accessories

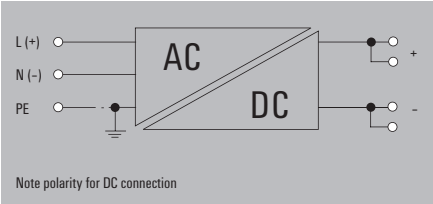
Note

connectPower PRO-E

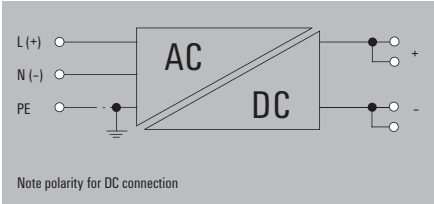
connectPower
PRO-E



CP E SNT 150W 12V 12.5A



CP E SNT 150W 24V 6.5A



Technical data

Input	
Input voltage	
Input current	
Input frequency	
Input fuse (internal)	
Recommended back-up fuse	
Output	
Output voltage	
Output voltage adjustment	
Output current	
Output power	
Residual ripple, breaking spikes	
Overload protection	
Surge protection	
Mains failure bridge-over time	
Control at 10...100% load	
Parallel connection option	
Insulation coordination	
electrical isolation, output-earth	
electrical isolation, input-earth	
electrical isolation, input-output	
General data	
Ambient temperature (operational)	
Storage temperature	
Max. perm. air humidity (operational)	
Degree of efficiency	
Status indicator	
Standards	
EMC standards	
Mounting position, installation notice	
Net weight	
Approvals	
Screw connection	
Connection cross-section, solid, min. / max.	
Depth x width x height	
Note	

Input voltage	88...132 V AC / 176...264 V AC optional / 250...370 V DC
Input current	2 A @ 230 V AC / 3.5 A @ 120 V AC
Input frequency	47...63 Hz
Input fuse (internal)	yes / max. 35A
Recommended back-up fuse	4 A at 230 V AC, characteristic curve C
Output voltage	12 V DC
Output voltage adjustment	± 10% nominal output voltage tolerance, adjustable with potentiometer
Output current	12.5 A@12 V DC
Output power	150 W
Residual ripple, breaking spikes	< 100 mV _{pp}
Overload protection	120~150% I _{konst.} of max. output power, automatic restart
Surge protection	13.5...16.2 V @ 12 V DC
Mains failure bridge-over time	20 ms
Control at 10...100% load	0.5%
Parallel connection option	Recommended with diode module
electrical isolation, output-earth	0.5 kV
electrical isolation, input-earth	1.5 kV
electrical isolation, input-output	3 kV
Ambient temperature (operational)	-20°C...70°C (>50°C derating, refer derated curve); 70% rated load@70°C
Storage temperature	-20 °C...85 °C
Max. perm. air humidity (operational)	5 %...95 % RH
Degree of efficiency	82 % @ 12 V DC
Status indicator	Operation, green LED
Standards	EN 60950
EMC standards	EN 55011, EN 55022, EN 55024, EN 61000-6 /-2, -3
Mounting position, installation notice	Panel mount, screw fix
Net weight	680 g
Approvals	CE; cURus; EAC
Connection cross-section, solid, min. / max.	0.34 / 4 mm ²
Depth x width x height	205 / 99 / 40 mm
The internal varistor found in a switch-mode power supply does not replace the necessary surge protection in a system.	

Input voltage	88...132 V AC / 176...264 V AC optional / 250...370 V DC
Input current	2 A @ 230 V AC / 3.5 A @ 120 V AC
Input frequency	47...63 Hz
Input fuse (internal)	yes / max. 35A
Recommended back-up fuse	4 A at 230 V AC, characteristic curve C
Output voltage	24 V DC
Output voltage adjustment	± 10% nominal output voltage tolerance, adjustable with potentiometer
Output current	6.5 A@24 V DC
Output power	150 W
Residual ripple, breaking spikes	< 100 mV _{pp}
Overload protection	120~150% I _{konst.} of max. output power, automatic restart
Surge protection	28...32 V @ 24 V DC
Mains failure bridge-over time	20 ms
Control at 10...100% load	0.5%
Parallel connection option	Recommended with diode module
electrical isolation, output-earth	0.5 kV
electrical isolation, input-earth	1.5 kV
electrical isolation, input-output	3 kV
Ambient temperature (operational)	-20°C...70°C (>50°C derating, refer derated curve); 70% rated load@70°C
Storage temperature	-20 °C...85 °C
Max. perm. air humidity (operational)	5 %...95 % RH
Degree of efficiency	86 % @ 24 V DC
Status indicator	Operation, green LED
Standards	EN 60950
EMC standards	EN 55011, EN 55022, EN 55024, EN 61000-6 /-2, -3
Mounting position, installation notice	Panel mount, screw fix
Net weight	682 g
Approvals	CE; cURus; EAC
Connection cross-section, solid, min. / max.	0.34 / 4 mm ²
Depth x width x height	205 / 99 / 40 mm
The internal varistor found in a switch-mode power supply does not replace the necessary surge protection in a system.	

Ordering data

Type	Qty.	Order No.
CP E SNT 150W 12V 12.5A	1	1165870000

Type	Qty.	Order No.
CP E SNT 150W 24V 6.5A	1	1165880000

Note

Note

Accessories

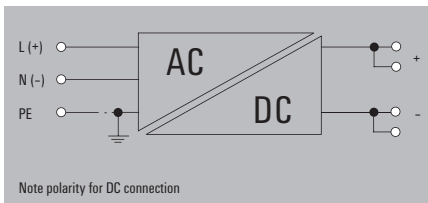
Note

Note

connectPower PRO-E



CP E SNT 150W 48V 3.3A



Technical data

Input	
Input voltage	Input voltage 88...132 V AC / 176...264 V AC optional / 250...370 V DC
Input current	2 A @ 230 V AC / 3.5 A @ 120 V AC
Input frequency	47...63 Hz
Input fuse (internal)	yes / max. 35A
Recommended back-up fuse	4 A at 230 V AC, characteristic curve C
Output	
Output voltage	48 V DC
Output voltage adjustment	± 10% nominal output voltage tolerance, adjustable with potentiometer
Output current	3.3 A @ 48 V DC
Output power	150 W
Residual ripple, breaking spikes	< 100 mV _{pp}
Overload protection	120~150% lkonst. of max. output power, automatic restart
Surge protection	55...62 V @ 48 V DC
Mains failure bridge-over time	20 ms
Control at 10...100% load	0.5%
Parallel connection option	Recommended with diode module
Insulation coordination	
electrical isolation, output-earth	0.5 kV
electrical isolation, input-earth	1.5 kV
electrical isolation, input-output	3 kV
General data	
Ambient temperature (operational)	Ambient temperature (operational) -20°C...70°C (>50°C derating, refer derated curve); 70% rated load @ 70°C
Storage temperature	-20 °C...85 °C
Max. perm. air humidity (operational)	5 %...95 % RH
Degree of efficiency	87 % @ 48 V DC
Status indicator	Operation, green LED
Standards	EN 60950
EMC standards	EN 55011, EN 55022, EN 55024, EN 61000-6 /2, -3
Mounting position, installation notice	Panel mount, screw fix
Net weight	685 g
Approvals	CE; cURus; EAC
Screw connection	
Connection cross-section, solid, min. / max.	0.34 / 4 mm ²
Depth x width x height	205 / 99 / 40 mm
Note	

Ordering data

Type	Qty.	Order No.
CP E SNT 150W 48V 3.3A	1	1165890000

Note

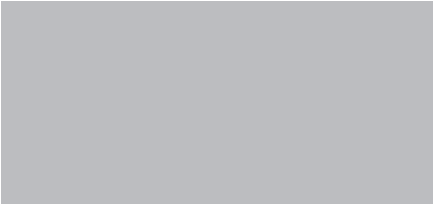
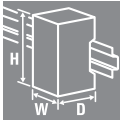
The internal varistor found in a switch-mode power supply does not replace the necessary surge protection in a system.

Accessories

Note

connectPower PRO-E

connectPower PRO-E



Technical data

Input	
Input voltage	
Input current	
Input frequency	
Input fuse (internal)	
Recommended back-up fuse	
Output	
Output voltage	
Output voltage adjustment	
Output current	
Output power	
Residual ripple, breaking spikes	
Overload protection	
Surge protection	
Mains failure bridge-over time	
Control at 10...100% load	
Parallel connection option	
Insulation coordination	
electrical isolation, output-earth	
electrical isolation, input-earth	
electrical isolation, input-output	
General data	
Ambient temperature (operational)	
Storage temperature	
Max. perm. air humidity (operational)	
Degree of efficiency	
Status indicator	
Standards	
EMC standards	
Mounting position, installation notice	
Net weight	
Approvals	
Screw connection	
Connection cross-section, solid, min. / max.	
Depth x width x height	
Note	

Ordering data

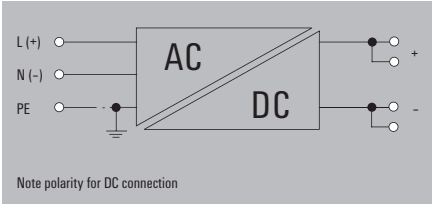
Type	Qty.	Order No.
------	------	-----------

Note

Accessories

Note

CP E SNT 250W 12V 21A



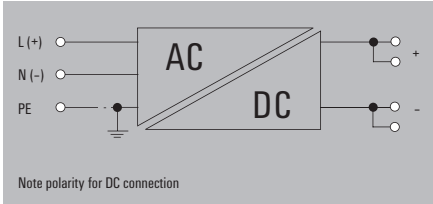
Input voltage	88...132 V AC / 176...264 V AC optional / 250...370 V DC
Input current	2.5 A @ 230 V AC / 4.7 A @ 120 V AC
Input frequency	47...63 Hz
Input fuse (internal)	yes / max. 35A
Recommended back-up fuse	6 A at 230 V AC, characteristic curve C
Output voltage	12 V DC
Output voltage adjustment	± 10% nominal output voltage tolerance, adjustable with potentiometer
Output current	21 A @ 12 V DC
Output power	250 W
Residual ripple, breaking spikes	< 100 mV _{pp}
Overload protection	120~150% I _{konst.} of max. output power, automatic restart
Surge protection	13.5...16.2 V @ 12 V DC
Mains failure bridge-over time	20 ms
Control at 10...100% load	0.5%
Parallel connection option	Recommended with diode module
Insulation coordination	
electrical isolation, output-earth	0.5 kV
electrical isolation, input-earth	1.5 kV
electrical isolation, input-output	3 kV
General data	
Ambient temperature (operational)	-20°C...70°C (>50°C derating, refer derated curve); 70% rated load @ 70°C
Storage temperature	-20 °C...85 °C
Max. perm. air humidity (operational)	5 %...95 % RH
Degree of efficiency	80 % @ 12 V DC
Status indicator	Operation, green LED
Standards	EN 60950
EMC standards	EN 55011, EN 55022, EN 55024, EN 61000-6 /-2, -3
Mounting position, installation notice	Panel mount, screw fix
Net weight	1000 g
Approvals	CE; cURus; EAC
Screw connection	
Connection cross-section, solid, min. / max.	0.34 / 4 mm ²
Depth x width x height	231 / 115 / 49.5 mm
Note	

Type	Qty.	Order No.
CP E SNT 250W 12V 21A	1	1202520000

Note

Note

CP E SNT 250W 24V 10.5A



Input voltage	88...132 V AC / 176...264 V AC optional / 250...370 V DC
Input current	2.5 A @ 230 V AC / 4.7 A @ 120 V AC
Input frequency	47...63 Hz
Input fuse (internal)	yes / max. 35A
Recommended back-up fuse	6 A at 230 V AC, characteristic curve C
Output voltage	24 V DC
Output voltage adjustment	± 10% nominal output voltage tolerance, adjustable with potentiometer
Output current	10.5 A @ 24 V DC
Output power	250 W
Residual ripple, breaking spikes	< 100 mV _{pp}
Overload protection	120~150% I _{konst.} of max. output power, automatic restart
Surge protection	28...32 V @ 24 V DC
Mains failure bridge-over time	20 ms
Control at 10...100% load	0.5%
Parallel connection option	Recommended with diode module
Insulation coordination	
electrical isolation, output-earth	0.5 kV
electrical isolation, input-earth	1.5 kV
electrical isolation, input-output	3 kV
General data	
Ambient temperature (operational)	-20°C...70°C (>50°C derating, refer derated curve); 70% rated load @ 70°C
Storage temperature	-20 °C...85 °C
Max. perm. air humidity (operational)	5 %...95 % RH
Degree of efficiency	81 % @ 24 V DC
Status indicator	Operation, green LED
Standards	EN 60950
EMC standards	EN 55011, EN 55022, EN 55024, EN 61000-6 /-2, -3
Mounting position, installation notice	Panel mount, screw fix
Net weight	1022 g
Approvals	CE; cURus; EAC
Screw connection	
Connection cross-section, solid, min. / max.	0.34 / 4 mm ²
Depth x width x height	231 / 115 / 49.5 mm
Note	

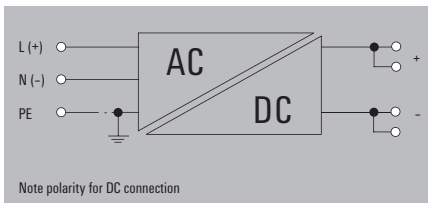
Type	Qty.	Order No.
CP E SNT 250W 24V 10.5A	1	1202530000

Note

Note

connectPower
PRO-E

CP E SNT 250W 48V 5.2A



Technical data

Input	
Input voltage	Input voltage 88...132 V AC / 176...264 V AC optional / 250...370 V DC
Input current	2.5 A @ 230 V AC / 4.7 A @ 120 V AC
Input frequency	47...63 Hz
Input fuse (internal)	yes / max. 35A
Recommended back-up fuse	6 A at 230 V AC, characteristic curve C
Output	
Output voltage	48 V DC
Output voltage adjustment	± 10% nominal output voltage tolerance, adjustable with potentiometer
Output current	5.2 A @ 48 V DC
Output power	250 W
Residual ripple, breaking spikes	< 100 mV _{pp}
Overload protection	120~150% lkonst. of max. output power, automatic restart
Surge protection	55...62 V @ 48 V DC
Mains failure bridge-over time	20 ms
Control at 10...100% load	0.5%
Parallel connection option	Recommended with diode module
Insulation coordination	
electrical isolation, output-earth	0.5 kV
electrical isolation, input-earth	1.5 kV
electrical isolation, input-output	3 kV
General data	
Ambient temperature (operational)	Ambient temperature (operational) -20°C...70°C (>50°C derating, refer derated curve); 70% rated load @ 70°C
Storage temperature	-20 °C...85 °C
Max. perm. air humidity (operational)	5 %...95 % RH
Degree of efficiency	83 % @ 48 V DC
Status indicator	Operation, green LED
Standards	EN 60950
EMC standards	EN 55011, EN 55022, EN 55024, EN 61000-6 /2, -3
Mounting position, installation notice	Panel mount, screw fix
Net weight	1078 g
Approvals	CE; cURus; EAC
Screw connection	
Connection cross-section, solid, min. / max.	0.34 / 4 mm ²
Depth x width x height	231 / 115 / 49.5 mm
Note	

Ordering data

Type	Qty.	Order No.
CP E SNT 250W 48V 5.2A	1	1202540000

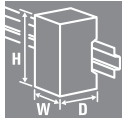
Note

The internal varistor found in a switch-mode power supply does not replace the necessary surge protection in a system.

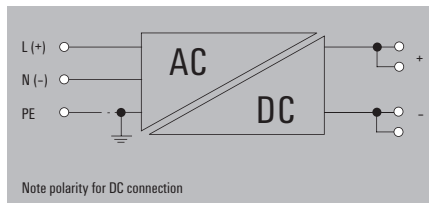
Accessories

Note

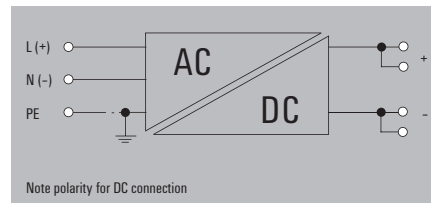
connectPower PRO-E

connectPower
PRO-E

CP E SNT 350W 24V 14.6A



CP E SNT 350W 48V 7.3A



Technical data

Input	
Input voltage	
Input current	
Input frequency	
Input fuse (internal)	
Recommended back-up fuse	
Output	
Output voltage	
Output voltage adjustment	
Output current	
Output power	
Residual ripple, breaking spikes	
Overload protection	
Surge protection	
Mains failure bridge-over time	
Control at 10...100% load	
Parallel connection option	
Insulation coordination	
electrical isolation, output-earth	
electrical isolation, input-earth	
electrical isolation, input-output	
General data	
Ambient temperature (operational)	
Storage temperature	
Max. perm. air humidity (operational)	
Degree of efficiency	
Status indicator	
Standards	
EMC standards	
Mounting position, installation notice	
Net weight	
Approvals	
Screw connection	
Connection cross-section, solid, min. / max.	
Depth x width x height	
Note	

Input voltage	85...264 V AC / 110...370 V DC
Input current	3 A @ 230 V AC / 5.6 A @ 120 V AC
Input frequency	47...63 Hz
Input fuse (internal)	yes / max. 35A
Recommended back-up fuse	6 A at 230 V AC, characteristic curve C
Output voltage	24 V DC
Output voltage adjustment	± 10% nominal output voltage tolerance, adjustable with potentiometer
Output current	14.6 A@24 V DC
Output power	350 W
Residual ripple, breaking spikes	120~150% Ikonst. of max. output power, automatic restart
Overload protection	28...32 V @ 24 V DC
Surge protection	20 ms
Mains failure bridge-over time	0.5%
Control at 10...100% load	Recommended with diode module
Parallel connection option	
Insulation coordination	
electrical isolation, output-earth	0.5 kV
electrical isolation, input-earth	1.5 kV
electrical isolation, input-output	3 kV
General data	
Ambient temperature (operational)	-20°C...70°C (>50°C derating, refer derated curve); 70% rated load@70°C
Storage temperature	-20 °C...85 °C
Max. perm. air humidity (operational)	5 %...95 % RH
Degree of efficiency	83 % @ 24 V DC
Status indicator	Operation, green LED
Standards	EN 60950
EMC standards	EN 55011, EN 55022, EN 55024, EN 61000-6 /-2, -3
Mounting position, installation notice	Panel mount, screw fix
Net weight	1030 g
Approvals	CE; cURus; EAC
Screw connection	
Connection cross-section, solid, min. / max.	0.34 / 4 mm ²
Depth x width x height	230 / 115 / 49.5 mm
Note	

Input voltage	85...264 V AC / 110...370 V DC
Input current	3 A @ 230 V AC / 5.6 A @ 120 V AC
Input frequency	47...63 Hz
Input fuse (internal)	yes / max. 35A
Recommended back-up fuse	6 A at 230 V AC, characteristic curve C
Output voltage	48 V DC
Output voltage adjustment	± 10% nominal output voltage tolerance, adjustable with potentiometer
Output current	7.3 A@48 V DC
Output power	350 W
Residual ripple, breaking spikes	120~150% Ikonst. of max. output power, automatic restart
Overload protection	55...62 V @ 48 V DC
Surge protection	20 ms
Mains failure bridge-over time	0.5%
Control at 10...100% load	Recommended with diode module
Parallel connection option	
Insulation coordination	
electrical isolation, output-earth	0.5 kV
electrical isolation, input-earth	1.5 kV
electrical isolation, input-output	3 kV
General data	
Ambient temperature (operational)	-20°C...70°C (>50°C derating, refer derated curve); 70% rated load@70°C
Storage temperature	-20 °C...85 °C
Max. perm. air humidity (operational)	5 %...95 % RH
Degree of efficiency	85 % @ 48 V DC
Status indicator	Operation, green LED
Standards	EN 60950
EMC standards	EN 55011, EN 55022, EN 55024, EN 61000-6 /-2, -3
Mounting position, installation notice	Panel mount, screw fix
Net weight	1051 g
Approvals	CE; cURus; EAC
Screw connection	
Connection cross-section, solid, min. / max.	0.34 / 4 mm ²
Depth x width x height	230 / 115 / 49.5 mm
Note	

Ordering data

Type	Qty.	Order No.
------	------	-----------

Type	Qty.	Order No.
CP E SNT 350W 24V 14.6A	1	1202550000

Type	Qty.	Order No.
CP E SNT 350W 48V 7.3A	1	1202560000

Note

The internal varistor found in a switch-mode power supply does not replace the necessary surge protection in a system.
--

The internal varistor found in a switch-mode power supply does not replace the necessary surge protection in a system.
--

Accessories

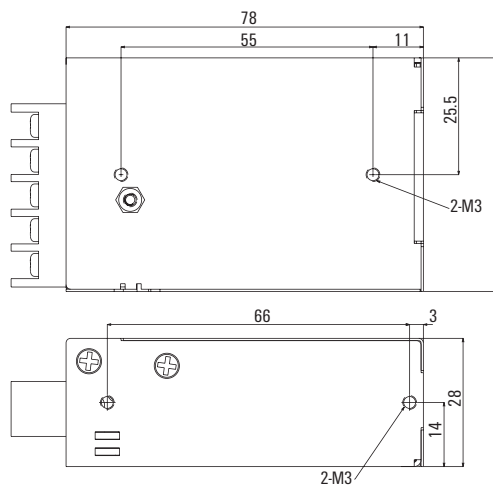
Note

Note

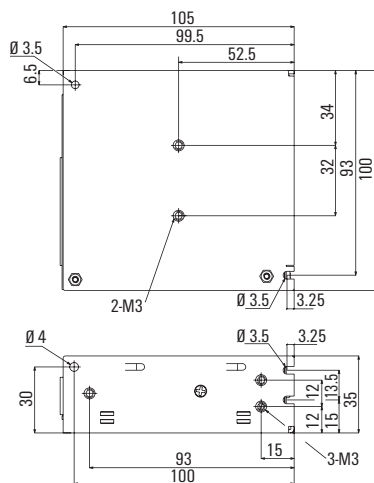
Note

Installation drawing

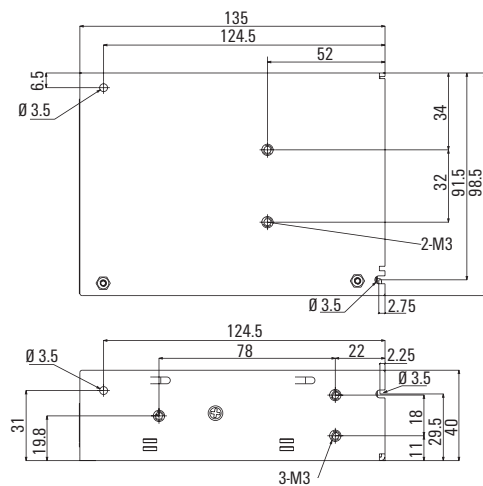
CP E SNT 25W



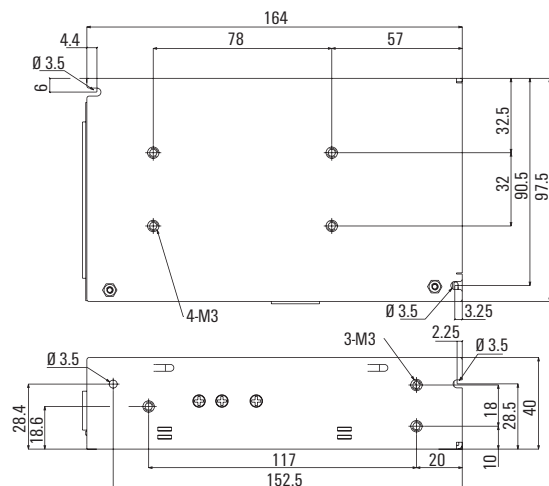
CP E SNT 50W



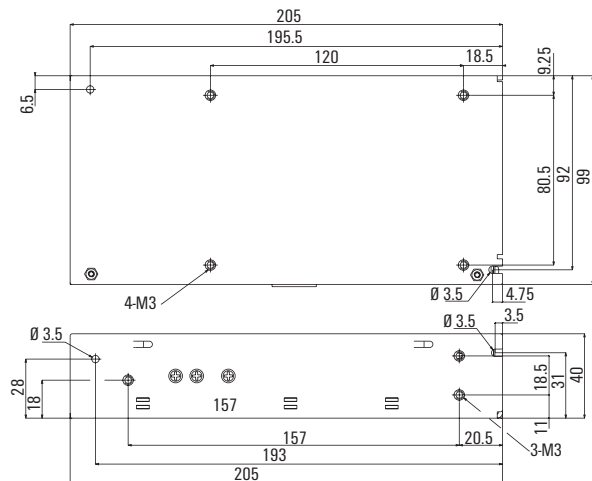
CP E SNT 75W



CP E SNT 100W

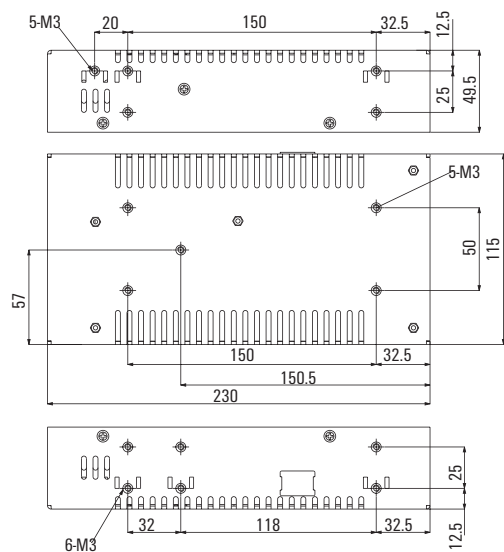


CP E SNT 150W

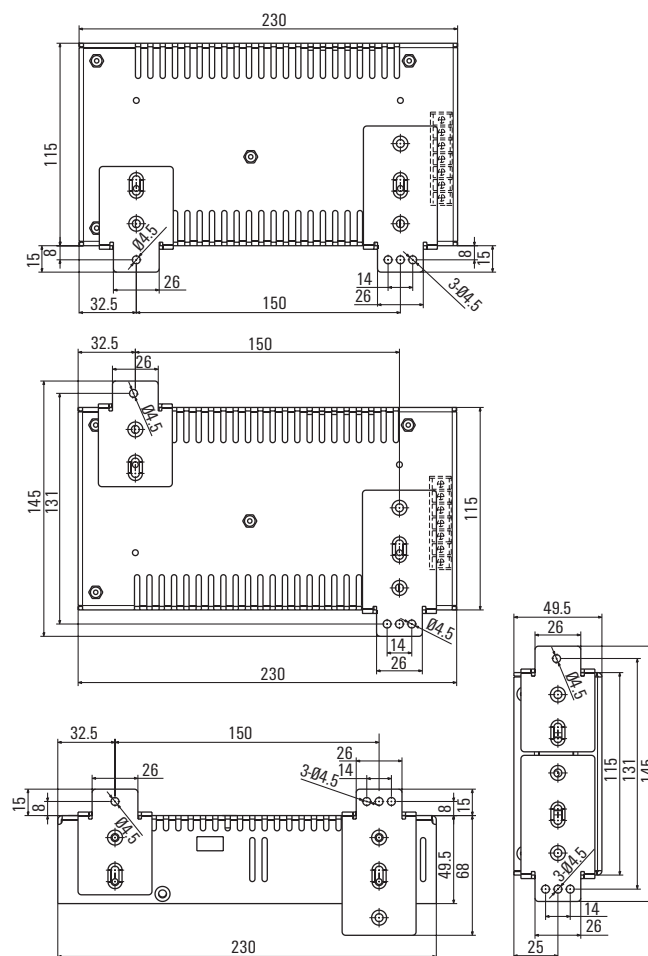


Installation drawing

CP E SNT 250W and CP E SNT 350W

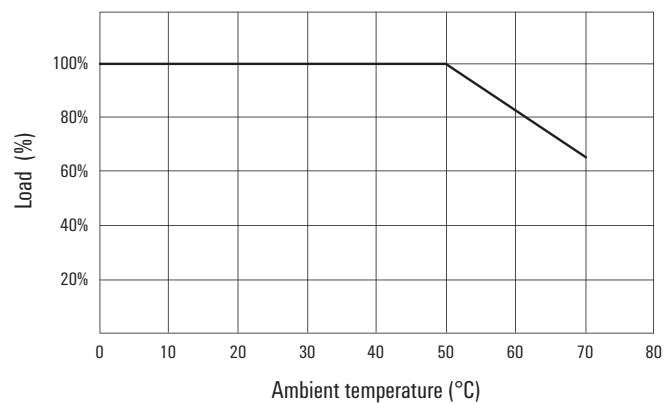


CP E SNT 250W and CP E SNT 350W (with mounting clip)



CP-E-SNT derating curve / ambient temperature

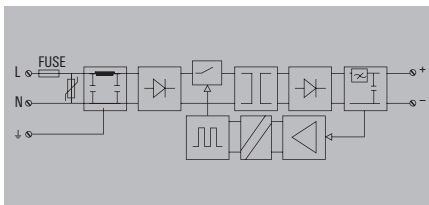
CP E SNT 25W up to CP E SNT 350W



connectPower Single-phase



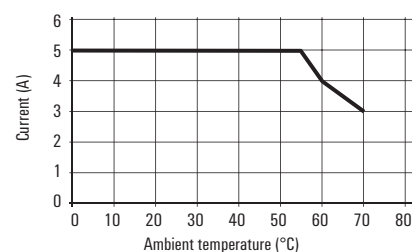
CP SNT 25W 5V 5A



Technical data

Input	
Input voltage	85...264 V AC / 110...370 V DC
Input current	500 mA at rated load @ 230 V AC
Input frequency	50/ 60 Hz
Overload current protection	Yes
Input fuse	Fusable link 2.5 A (T) / 250 V
Output	
Output voltage	4...8 V DC (adjustable via potentiometer)
Output current	5 A
Output power	25 W
Max. residual ripple	120 mV _{SS}
Overload protection	105 %...150 % I _{const} of max. output load; automatic reset
Surge protection	Varistor
Mains failure bridge-over time	11 ms @ 115 V AC / 50 ms @ 230 V AC
Control at 10...100% load	1%
Max. capacitance at output	10000 µF
Insulation coordination (EN 50178)	
electrical isolation, output-earth	0.5 kV
electrical isolation, input-earth	1.5 kV
electrical isolation, input-output	3 kV
electrical isolation, I/O rail	4 kV
General data	
Ambient temperature (operational)	-10...70 °C (Derating ab 55 °C)
Storage temperature	-20 °C...85 °C
Degree of efficiency at max. load	70%
Standards	DIN EN 50178 (PELV), DIN EN 60950 (SELV)
Approvals	cCSAus; cURus; EAC; UL
EMC standards	EN 55011, EN 55022, EN 61000-3-2,-3, EN 61000-6-2,-3,-4
Parallel connection option	Max. 3 devices (rated voltages are to be calibrated at ±20 mV)

Derating curve



Dimensions		Input / Output	
Clamping range (nominal / min. / max.)	mm ²	2.5 / 0.5 / 4	
Depth x width x height	mm	62.5 / 70 / 90.5	
Note			

Ordering data

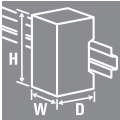
Type	Qty.	Order No.
CP SNT 25W 5V 5A	1	8754960000

Note	The internal varistor found in a switch-mode power supply does not replace the necessary surge protection in a system.
------	--

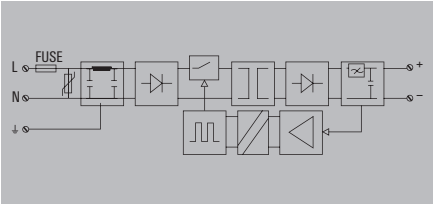
Accessories

Note	
------	--

connectPower
Single-phase



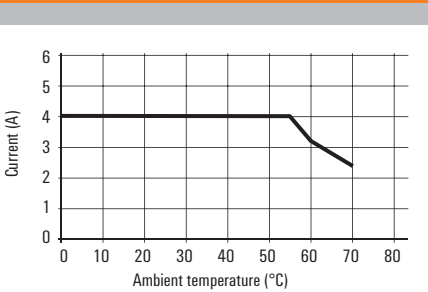
CP SNT 48W 12V 4A



Technical data

Input	
Input voltage	85...264 V AC / 110...370 V DC
Input current	500 mA at rated load @ 230 V AC
Input frequency	50/ 60 Hz
Overload current protection	Yes
Input fuse	Fusable link 2.5 A (T) / 250 V
Output	
Output voltage	9...15 V DC (adjustable via potentiometer)
Output current	4 A
Output power	48 W
Max. residual ripple	120 mV _{SS}
Overload protection	105 %...150 % I _{const} of max. output load; automatic reset
Surge protection	
Mains failure bridge-over time	Varistor
Control at 10...100% load	11 ms @ 115 V AC / 50 ms @ 230 V AC
Max. capacitance at output	1%
Insulation coordination (EN 50178)	
electrical isolation, output-earth	10000 µF
electrical isolation, input-earth	0.5 kV
electrical isolation, input-output	1.5 kV
electrical isolation, I/O rail	3 kV
General data	
Ambient temperature (operational)	4 kV
Storage temperature	-10...70 °C (Derating ab 55 °C)
Degree of efficiency at max. load	-20 °C...85 °C
Standards	75%
Approvals	DIN EN 50178 (PELV), DIN EN 60950 (SELV)
EMC standards	cCSAus; CE; cURus; EAC; UL
Parallel connection option	EN 55011, EN 55022, EN 61000-3-2, 3, EN 61000-6-2, 3, 4
	Max. 3 devices (rated voltages are to be calibrated at ±20 mV)

Derating curve



Dimensions	
Clamping range (nominal / min. / max.)	mm ²
Depth x width x height	mm
Note	

Input / Output	
2.5 / 0.5 / 4	
62.5 / 70 / 90.5	

Ordering data

Screw connection

Type	Qty.	Order No.
CP SNT 48W 12V 4A	1	8754970000

Note

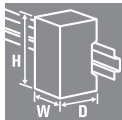
The internal varistor found in a switch-mode power supply does not replace the necessary surge protection in a system.
--

Accessories

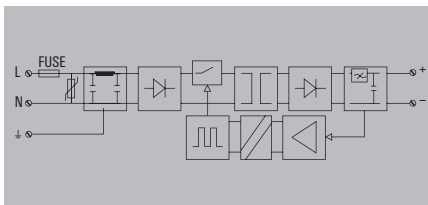
Note

|--|

connectPower Single-phase



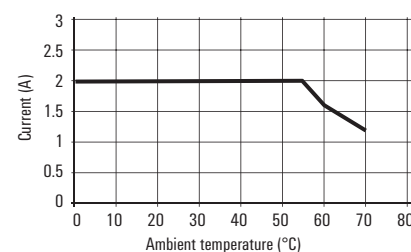
CP SNT 48W 24V 2A



Technical data

Input	
Input voltage	85...264 V AC / 110...370 V DC
Input current	500 mA at rated load @ 230 V AC
Input frequency	50/ 60 Hz
Overload current protection	Yes
Input fuse	Fusable link 2.5 A (T) / 250 V
Output	
Output voltage	15...28 V DC (adjustable via potentiometer)
Output current	2 A
Output power	48 W
Max. residual ripple	120 mV _{SS}
Overload protection	105 %...150 % I _{const} of max. output load; automatic reset
Surge protection	Varistor
Mains failure bridge-over time	11 ms @ 115 V AC / 50 ms @ 230 V AC
Control at 10...100% load	1%
Max. capacitance at output	10000 µF
Insulation coordination (EN 50178)	
electrical isolation, output-earth	0.5 kV
electrical isolation, input-earth	1.5 kV
electrical isolation, input-output	3 kV
electrical isolation, I/O rail	4 kV
General data	
Ambient temperature (operational)	-10...70 °C (Derating ab 55 °C)
Storage temperature	-20 °C...85 °C
Degree of efficiency at max. load	78%
Standards	DIN EN 50178 (PELV), DIN EN 60950 (SELV)
Approvals	cCSAus; cURus; EAC; UL
EMC standards	EN 55011, EN 55022, EN 61000-3-2,-3, EN 61000-6-2,-3,-4
Parallel connection option	Max. 3 devices (rated voltages are to be calibrated at ±20 mV)

Derating curve



Dimensions	
Clamping range (nominal / min. / max.)	mm ²
Depth x width x height	mm
Note	

Input / Output	
2.5 / 0.5 / 4	
62.5 / 70 / 90.5	

Ordering data

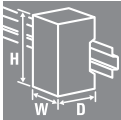
Type	Qty.	Order No.
CP SNT 48W 24V 2A	1	8739140000

Note	The internal varistor found in a switch-mode power supply does not replace the necessary surge protection in a system.
------	--

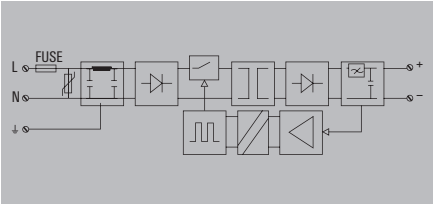
Accessories

Note	
------	--

connectPower
Single-phase



CP SNT 48W 48V 1A

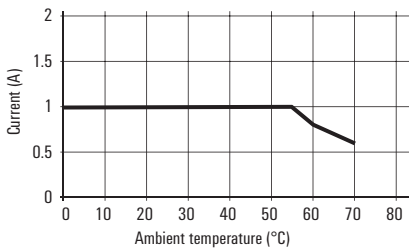


Technical data

Input	
Input voltage	85...264 V AC / 110...370 V DC
Input current	500 mA at rated load @ 230 V AC
Input frequency	50/ 60 Hz
Overload current protection	Yes
Input fuse	Fusable link 2.5 A (T) / 250 V
Output	
Output voltage	46...55 V DC (adjustable via potentiometer)
Output current	1 A
Output power	48 W
Max. residual ripple	120 mV _{SS}
Overload protection	105 %...150 % I _{const} of max. output load; automatic reset
Surge protection	
Mains failure bridge-over time	Varistor
Control at 10...100% load	11 ms @ 115 V AC / 50 ms @ 230 V AC
Max. capacitance at output	1%
Insulation coordination (EN 50178)	
electrical isolation, output-earth	10000 µF
electrical isolation, input-earth	0.5 kV
electrical isolation, input-output	1.5 kV
electrical isolation, I/O rail	3 kV
General data	
Ambient temperature (operational)	4 kV
Storage temperature	-10...70 °C (Derating ab 55 °C)
Degree of efficiency at max. load	-20 °C...85 °C
Standards	80%
Approvals	DIN EN 50178 (PELV), DIN EN 60950 (SELV)
EMC standards	cCSAus; cURus; EAC; UL
Parallel connection option	EN 55011, EN 55022, EN 61000-3-2,3, EN 61000-6-2,-3,-4
	Max. 3 devices (rated voltages are to be calibrated at ±20 mV)

Derating curve	
Current (A)	Ambient temperature (°C)
2	0
1.5	10
1	20
0.5	30
0	40
	50
	60
	70
	80

Derating curve



Dimensions	
Clamping range (nominal / min. / max.)	mm ²
Depth x width x height	mm
Note	

Input / Output	
2.5 / 0.5 / 4	
62.5 / 70 / 90.5	
Note	

Ordering data

Screw connection

Type	Qty.	Order No.
CP SNT 48W 48V 1A	1	8879230000

Note

The internal varistor found in a switch-mode power supply does not replace the necessary surge protection in a system.
--

Accessories

Note

Note

Small screwdriver



Type	Blade type	Size/AF	a	b	c	Order No.
SDIK PH1		1.00			80	9008570000
SDIS 0.5X3.0X100	B		0.5	3	100	9008380000

Markers



Type	Colour	Qty.	Order No.
SM 18/9.5 K MC NE WS	white	200	1248580000

End bracket

For DIN rail TS 35



Polyamide with fibre glass, screwable	Colour	Torque	Qty.	Order No.
WEW 35/1 SW	black	1.2 Nm	50	1162600000

connectPower DC/DC converter

ConnectPower DC/DC converter



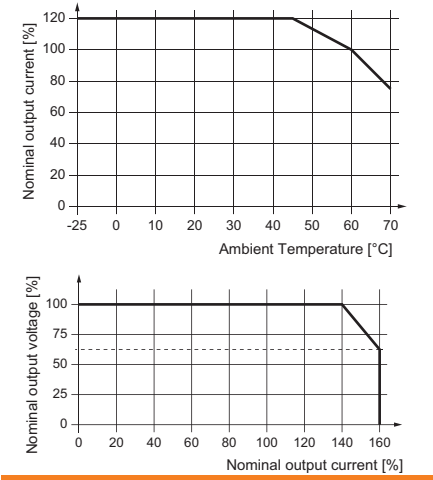
Derating curve

Event		LED (Gr/Ye/Rd)	LED (Ye)		Transistor status outputs			Status
Input	Output	gr r = "DC OK"	Ye = "i > 90% I _N "	Rd = "Faul T"	DC OK	i > 90% I _N	I ow u _N	relay
U _N < 14 V	—	OFF	ON	Low	Low	Low	Low	OFF
U _N = 14...19.2 V *)	I < 90 % I _N	Gr	ON	High	Low	Low	Low	ON
	I > 90 % I _N	Ye	ON	High	High	Low	Low	ON
	U < 20.4 V	Rd	ON	Low	Low	Low	Low	OFF
U _N > 19.2 V	I < 90 % I _N	Gr	OFF	High	Low	High	High	ON
	I > 90 % I _N	Ye	OFF	High	High	High	High	ON
	U < 20.4 V	Rd	OFF	Low	Low	High	High	OFF

Gr = grün / green / verte / verde / verde / 绿色
Ye = gelb / yellow / jaune / giallo / amarillo / amarelo / 黄色
Rd = rot / red / rouge / rosso / rojo / vermelho / 红色

*) während des Betriebes / during operations / en cours de fonctionnement / durante l'esercizio / durante el servicio / durante a operação / 运行过程中

Signal states



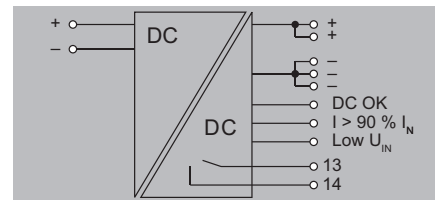
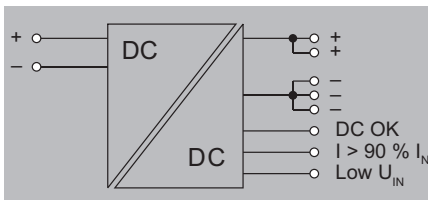
Technical data

General data	
Current limiting	150% I _{out}
Insulation voltage input / earth	1.5
Insulation voltage output / earth	0.5
Insulation voltage, input/output	1.5
Ambient temperature (operational) / Storage temperature / Start-up	-25 °C...70 °C / -40 °C...85 °C / ≥ -40 °C
Humidity at operating temperature	5...95 %, no condensation
Class of protection / Pollution degree	III, with no ground connection, for SELV / 2
MTBF	1250000
Housing version	Metal, corrosion resistant
Mounting position, installation notice	Horizontal on TS35 mounting rail. 50 mm of clearance at top & bottom for air circ. Can mount side by side with no space in between., 50 mm clearance at top and bottom for free air circulation, mountable side by side without clearance
EMC / shock / vibration	
Interference immunity test acc. to	EN 61000-4-2 (ESD), EN 61000-4-4 (burst), EN 61000-4-5 (surge), EN 61000-4-6 (conducted), EN61000-4-3 (HF field)
Shock	30 g in all directions
Resistance to vibration	2.3 g (15 Hz...150 Hz)
Electrical safety (applied standards)	
Electrical machine equipment	Acc. to EN60204
Safety transformers for switch-mode power supplies	nach EN61558-2-16
For use with electronic equipment	Acc. to EN50178 / VDE0160
Safety extra-low voltage	SELV acc. to EN60950, PELV acc. to EN60204
Protective separation / protection against electrical shock	VDE0100-410 / acc. to DIN57100-410
Protection against dangerous shock currents	Acc. to VDE0106-101

ConnectPower DC/DC converter

PRO DCDC 120W 24V 5A

PRO DCDC 240W 24V 10A



Technical data

Input	
Rated input voltage	24 V DC
DC input voltage range	14...32 V (during operation), 18...32 V (commissioning)
Input fuse (internal)	Yes
Inrush current / Overload current protection	Max. 10 A / Yes
Recommended back-up fuse	10 A, char. B circuit breaker, 10 A, char. C circuit breaker
Output	
Rated output voltage	24 V DC $\pm 1\%$
Output voltage	22.5...29.5 V (adjustable via potentiometer on front)
Continuous output current @ U_{Rated}	5 A @ 60 °C, 6 A @ 45 °C, 3,75 A @ 70 °C
Output power	120
Ramp-up time	≤ 9 ms (U_{out} : 10%...90%)
Capacitive load	unrestricted
Parallel connection option	Yes, max. 5 (without diode module)
Leitungsreserve @ U_{Rated}	600% IN for 16 ms
Residual ripple, breaking spikes	max. 20 mVpp @ 24 VDC, IN
Protection against inverse voltage / Overload protection	Yes / Yes
General data	
AC failure bridging time @ I_{Nom}	> 10 ms @ 24 V DC
Protection against reverse voltages from the load	33...34 V DC
Start-up	≥ -40 °C
Current limiting	150% I_{out}
Power loss idling / nominal load	2 W / 11 W
Degree of efficiency	typ. 92 %
Signalling	
Transistor output, positive-switching	DC OK: 20 mA max., short-circuit-proof, $I > 90\%$: 20 mA max., short-circuit-proof, Low U_{IN} : 20 mA max., short-circuit-proof
Floating contact	Yes
Relay on/off / Contact load	Output voltage > 21.6 V / < 20.4 V / max. 30 V DC / 0.5 A
Approvals	
Approvals	ABS; BURVER; cULus; cULusEX; DNVGL; LLOYDSREG; RINA

Input	
Rated input voltage	24 V DC
DC input voltage range	14...32 V (during operation), 18...32 V (commissioning)
Input fuse (internal)	Yes
Inrush current / Overload current protection	Max. 10 A / Yes
Recommended back-up fuse	10 A, char. B circuit breaker, 10 A, char. C circuit breaker
Output	
Rated output voltage	24 V DC $\pm 1\%$
Output voltage	22.5...29.5 V (adjustable via potentiometer on front)
Continuous output current @ U_{Rated}	5 A @ 60 °C, 6 A @ 45 °C, 3,75 A @ 70 °C
Output power	120
Ramp-up time	≤ 9 ms (U_{out} : 10%...90%)
Capacitive load	unrestricted
Parallel connection option	Yes, max. 5 (without diode module)
Leitungsreserve @ U_{Rated}	600% IN for 16 ms
Residual ripple, breaking spikes	max. 20 mVpp @ 24 VDC, IN
Protection against inverse voltage / Overload protection	Yes / Yes
General data	
AC failure bridging time @ I_{Nom}	> 10 ms @ 24 V DC
Protection against reverse voltages from the load	33...34 V DC
Start-up	≥ -40 °C
Current limiting	150% I_{out}
Power loss idling / nominal load	2 W / 11 W
Degree of efficiency	typ. 92 %
Signalling	
Transistor output, positive-switching	DC OK: 20 mA max., short-circuit-proof, $I > 90\%$: 20 mA max., short-circuit-proof, Low U_{IN} : 20 mA max., short-circuit-proof
Floating contact	Yes
Relay on/off / Contact load	Output voltage > 21.6 V / < 20.4 V / max. 30 V DC / 0.5 A
Approvals	
Approvals	ABS; BURVER; cULus; cULusEX; DNVGL; LLOYDSREG; RINA

Input	
Rated input voltage	24 V DC
DC input voltage range	14...32 V (during operation), 18...32 V (commissioning)
Input fuse (internal)	Yes
Inrush current / Overload current protection	max. 15 A / Yes
Recommended back-up fuse	25 A, Char.B circuit breaker, 25 A, Char.C circuit breaker
Output	
Rated output voltage	24 V DC $\pm 1\%$
Output voltage	22.5...29.5 V (adjustable via potentiometer on front)
Continuous output current @ U_{Rated}	10 A @ 60 °C, 12 A @ 45 °C, 7,5 A @ 70 °C
Output power	240
Ramp-up time	≤ 9 ms (U_{out} : 10%...90%)
Capacitive load	unrestricted
Parallel connection option	Yes, max. 5 (without diode module)
Leitungsreserve @ U_{Rated}	600% IN for 16 ms
Residual ripple, breaking spikes	max. 20 mVpp @ 24 VDC, IN
Protection against inverse voltage / Overload protection	Yes / Yes
General data	
AC failure bridging time @ I_{Nom}	> 12 ms @ 24 V DC
Protection against reverse voltages from the load	33...34 V DC
Start-up	≥ -40 °C
Current limiting	150% I_{out}
Power loss idling / nominal load	2 W / 22 W
Degree of efficiency	typ. 92 %
Signalling	
Transistor output, positive-switching	DC OK: 20 mA max., short-circuit-proof, $I > 90\%$: 20 mA max., short-circuit-proof, Low U_{IN} : 20 mA max., short-circuit-proof
Floating contact	Yes
Relay on/off / Contact load	Output voltage > 21.6 V / < 20.4 V / max. 30 V DC / 0.5 A
Approvals	
Approvals	ABS; BURVER; cULus; cULusEX; DNVGL; LLOYDSREG; RINA

Connection data	
Connection system	Screw connection: pluggable
Number of terminals	2 for (+, -)
Wire cross-section, rigid min/max	0.2 / 4
Wire cross-section, flexible min/max	0.2 / 4
Wire cross-section, AWG/kcmil min/max	30 / 12
Tightening torque	0.4 / 0.5
Note	

Input	Output
Screw connection: pluggable	8 (+ / - / signal)
2 for (+, -)	0.2 / 4
0.2 / 4	0.2 / 2.5
0.2 / 4	0.2 / 2.5
30 / 12	24 / 14
0.4 / 0.5	0.4 / 0.5

Input	Output
Screw connection: pluggable	10 (+ / - / signal)
2 for (+, -)	0.08 / 4
0.08 / 4	0.2 / 2.5
0.08 / 4	0.2 / 2.5
30 / 12	24 / 14
0.4 / 0.5	0.4 / 0.5

Ordering data

Type	Qty.	Order No.
PRO DCDC 120W 24V 5A	1	2001800000
Note		

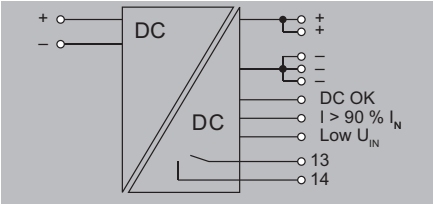
Type	Qty.	Order No.
PRO DCDC 120W 24V 5A	1	2001800000
Note		

Type	Qty.	Order No.
PRO DCDC 240W 24V 10A	1	2001810000
Note		

connectPower DC/DC converter

ConnectPower DC/DC converter

PRO DCDC 480W 24V 20A



Technical data

Input	
Rated input voltage	
DC input voltage range	
Input fuse (internal)	
Inrush current / Overload current protection	
Recommended back-up fuse	
Output	
Rated output voltage	
Output voltage	
Continuous output current @ U_{Rated}	
Output power	
Ramp-up time	
Capacitive load	
Parallel connection option	
Leitungsreserve @ U_{Rated}	
Residual ripple, breaking spikes	
Protection against inverse voltage / Overload protection	
General data	
AC failure bridging time @ I_{Nnom}	
Protection against reverse voltages from the load	
Start-up	
Current limiting	
Power loss idling / nominal load	
Degree of efficiency	
Signalling	
Transistor output, positive-switching	
Floating contact	
Relay on/off / Contact load	
Approvals	
Approvals	

24 V DC
14...32 V (during operation), 18...32 V (commissioning)
Yes
max. 30 A / Yes
40 A, Char. B circuit breaker, 40 A, Char. C circuit breaker
24 V DC $\pm$ 1 %
22.5...29.5 V (adjustable via potentiometer on front)
20 A @ 60 °C, 24 A @ 45°C, 15 A @ 70°C
480
$\leq$ 9 ms (U_{out} : 10%...90%)
unrestricted
yes, max. 3
600% IN for 16 ms
max. 20 mVpp @ 24 VDC, IN
Yes / Yes
> 10 ms @ 24 V DC
33...34 V DC
$\geq$ -40 °C
150% I_{out}
3 W / 40 W
typ. > 93%
DC OK: 20 mA max., short-circuit-proof, I > 90%: 20 mA max., short-circuit-proof, Low U_{IN} : 20 mA max., short-circuit-proof
Yes
Output voltage > 21.6 V / < 20.4 V / max. 30 V DC / 0.5 A
ABS; BURVER; cULus; cULusEX; DNVGL; LLOYDSREG; RINA

Connection data	
Connection system	
Number of terminals	
Wire cross-section, rigid min/max	mm ²
Wire cross-section, flexible min/max	mm ²
Wire cross-section, AWG/kcmil min/max	
Tightening torque	
Note	

Input	Output
Screw connection	
2 for (+, -)	10 (+ / - / signal)
0.5 / 16	0.18 / 6
0.5 / 16	0.18 / 6
22 / 8	26 / 10
1.2 / 1.5	0.4 / 0.5

Ordering data

Type	Qty.	Order No.
PRO DCDC 480W 24V 20A	1	2001820000
Note		

Type	Qty.	Order No.
PRO DCDC 480W 24V 20A	1	2001820000
Note		