

Technical data sheet

Power supply · Compact Economy, 120 W

Primary switchmode power supply, PFC, Single-phase

Input: wide-range input AC 85–264 V, DC 110–345 V

Output: DC 12 V, 7 A



Identification

Type CPSB1-120-12E
Part No. [723510](#)

Product version

Datasheet version 00

Input

Number of phases 1
Rated voltage U_N AC 120/240 V
Operation voltage range AC 90–264 V / DC 110–345 V
Frequency range 47 Hz – 63 Hz
Rated current I_N 1.9 A @ AC 120 V / 1.1 A @ AC 240 V
Inrush current ≤ 30 A / 0.72 A²s
Internal fuse T3,15 A / AC 250 V
External protection Mini-circuit breaker: C 6 A
Power factor correction P.F.C. >0.6

Output

Output voltage/current DC 12 V/7 A
Rated voltage U_N DC 12 V
Rated current I_N 7 A
Voltage drop Max. 215 mV (5 A)
Max. output current 11–9.5 A, 5 s
Power Dissipation <20 W
Setting range $U_{out\ min.}/U_{out\ max.}$ DC 12–15 V

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Load regulation	<2 %
Ripple and noise	≤120 mV pp
Hold up time	>10 ms @ AC 120 V / >60 ms @ AC 230 V
Parallel / redundant mode	Yes/via external decoupling diode e.g. 722999
Efficiency	>84 %
Overtemperature protection	Yes
Over voltage protection	≥DC 18 V
Short circuit	Hiccup Mode

Status indication

Status indication DC ON LED green	≥10.8 V
Status indication DC LOW LED red	≤10.8 V

Monitoring

DC ON Control (Rdy)	N/O contact
Switching voltage	AC 300 V / DC 150 V
Switching current	AC/DC 1 A
Switching capacity	300 VA / 30 W
Isolation voltage	AC 500 V

General

Insulation voltage input / output	DC 4.2 kV
Insulation voltage input / ground	DC 2.2 kV
Insulation voltage output / ground	DC 750 V
Derating	>60 °C: -2.4 W/°C
Cooling	Air convection, 50 mm distance top/bottom, 20 mm side
Housing material	Aluminum
Mounting	DIN rail mountable TS35 (EN 60715)
Installation position	Vertical
Degree of protection	IP20 (IEC 529 / EN 60529)
Protection class	I
Weight/unit	0.4 kg
Connection type	Screw terminal Plug-in 0.20 mm ² – 2.5 mm ² AWG 24 – AWG 14
Strip length	6.0 mm / 0.24 in
Screwdriver	3,0 × 0,5 mm
Tightening torque	0.5 – 0.6 Nm / 4.42 – 5.30 lbf in
Connection type	Connector with screws: 2.5 mm ² (AWG 24–12)
Dimensions (w × h × d)	40.0 mm × 115.0 mm × 134.0 mm
PU (units)	1

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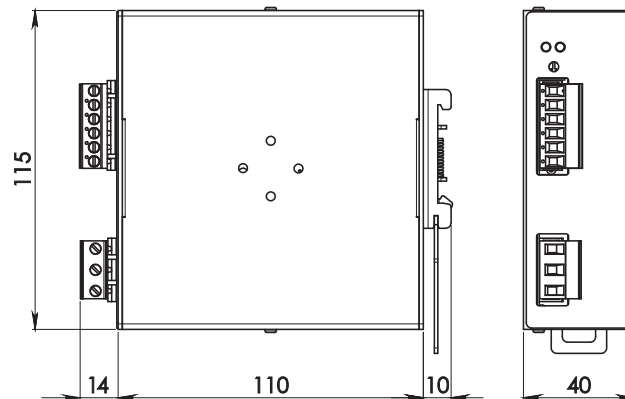
General ambient conditions

Operation temperature range	-40 °C ... +70 °C (UL approved up to +60 °C)
Storage temperature range	-40 °C ... +80 °C
Over voltage category	III
Degree of pollution	2

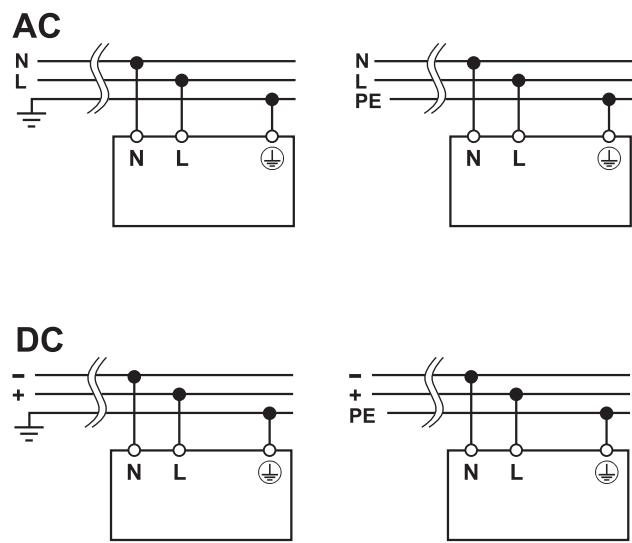
Certifications/Standards

Certifications	CE UKCA cULus (E249179)
Standards	UL 508 IEC/EN 61010-1 IEC/EN 61010-2-201 IEC/EN 60950 EN 55011 (CISPR11) Class A EN 55022 (CISPR22) Class A EN 61000-4-2 Level 3 EN 61000-4-3 Level 3 EN 61000-4-4 Level 3 EN 61000-4-5 Level 3 EN 61000-4-11 Level 2 IEC 60068-2-6 (Vibration sinusoidal), 5-17.8 Hz: ± 1.6 mm, 17.8-500 Hz: 2 g 2 hours / axis (X,Y,Z) IEC 60068-2-27 (Shock), 30 g 6 ms, 20 g 11 ms, 3 bumps / direction, 18 bumps total

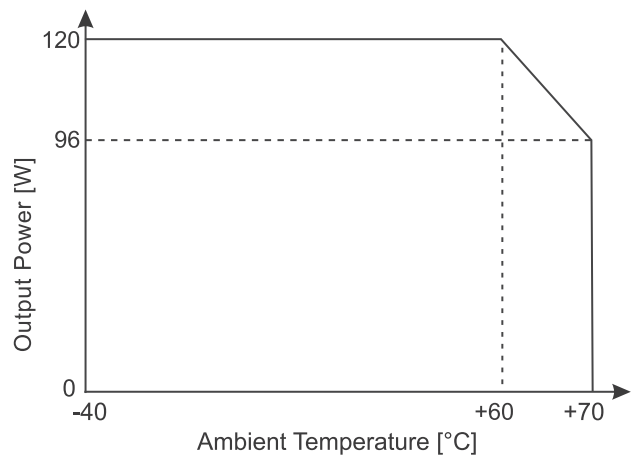
Dimensions



PIN assignment



Derating



Short circuit characteristics

Hiccup

