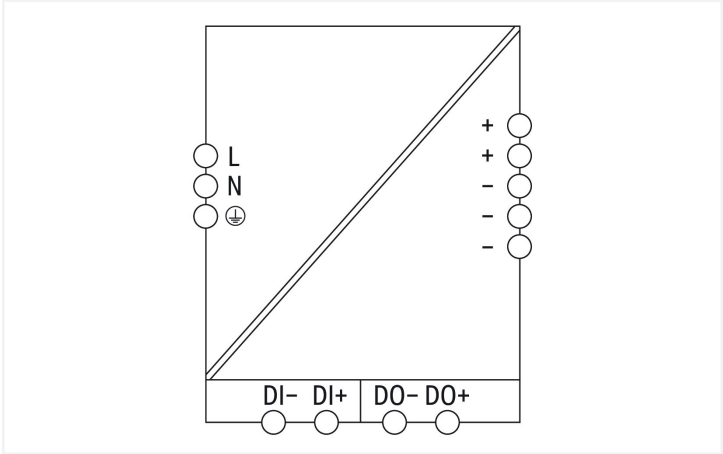




- Features:**
- Power supply with TopBoost, PowerBoost and configurable overload behavior
 - Configurable digital signal input and output, optical status indication, function keys
 - Communication interface for configuration and monitoring
 - Optional connection to IO-Link, EtherNet/IP™, Modbus TCP or Modbus RTU
 - Suitable for both parallel and series operation
 - Natural convection cooling when horizontally mounted
 - Pluggable connection technology
 - Electrically isolated output voltage (SELV/PELV) per EN 61010-2-201/UL 61010-2-201
 - Marker slot for WAGO marking cards (WMB) and WAGO marking strips

Technical data			
Input		Output	
Phases	1	Nominal output voltage $U_{o\ nom}$	48 VDC (SELV)
Nominal input voltage $U_{i\ nom}$	1 x 100 ... 240 VAC	Output voltage range	48 ... 56 VDC (adjustable)
Input voltage range	1 x 90 ... 264 VAC	Default Setting	DC 48 V
Nominal mains frequency range	50 ... 60 Hz	Nominal output current $I_{o\ nom}$	10 A (48 VDC)
Input current I_i	≤ 5.9 A (240 VAC; nominal load)	Nominal output power	480 W
Inrush current	≤ 12 A (after 1 ms)	Deviation	≤ 1 %
Power factor correction (PFC)	Active	Residual ripple	≤ 70 mV (peak-to-peak)
Mains failure hold-up time	≥ 24 ms (230 VAC)	Current limitation	1.1 x $I_{o\ nom}$ (typ.)
		Overload behavior	TopBoost/PowerBoost/Time-limited constant current mode (other overload behaviors can be set)



Output	
PowerBoost	DC 15 A (5 s)
TopBoost	Up to 600 %

Signaling and communication	
Signaling	Optical status indication (DC OK; load; warning and error states) Digital signal input and output (DI/DO)
Communications	USB (750-923 Communication Cable) EtherNet/IP™ (2789-9023 Communication Module) IO-Link (2789-9080 Communication Module) Modbus RTU (Communication Module 2789-9015) Modbus TCP (2789-9052 Communication Module)

Efficiency/power losses	
Power loss P _I	≤ 1.3 W (standby); ≤ 2.6 W (no load); ≤ 24 W (230 VAC; nominal load)
Efficiency (typ.)	95.3 %

Circuit protection	
Internal fuse	T 10 A / 250 VAC
Backup fusing (recommended)	16 A (for USA/Canada: 15 A)

Safety and protection	
Isolation voltage (pri.-sec., AC)	3510 V
Isolation voltage (pri.-PE, AC)	2200 V
Isolation voltage (sec.-PE)	0.5 kVDC
Isolation voltage (sec.-signal)	0.5 kVDC
Protection class	I
Protection type	IP20; per EN 60529
Overvoltage category	III (≤ 2000 m a.s.l.); II (> 2000 m a.s.l.)
Pollution degree	2
Transient suppression (primary)	Yes
Short-circuit-protected	Yes
Open-circuit-proof	Yes
Parallel operation	Yes
Series operation	Yes
MTBF	> 800,000 h (per IEC 61709)

Connection data	
Connection type 1	Input/output/signaling
Connection technology	CAGE CLAMP®
WAGO connector	WAGO 721 Series
Solid conductor	0.08 ... 2.5 mm² / 28 ... 12 AWG
Fine-stranded conductor	0.08 ... 2.5 mm² / 28 ... 12 AWG
Fine-stranded conductor; with insulated ferrule	2.5 ... 1.5 mm² / 12 ... 16 AWG
Fine-stranded conductor; with uninsulated ferrule	1.5 ... 0.08 mm² / 16 ... 28 AWG
Strip length	8 ... 9 mm / 0.31 ... 0.35 inches

Physical data	
Width	70 mm / 2.756 inches
Height	130 mm / 5.118 inches
Depth from upper-edge of DIN-rail	130 mm / 5.118 inches
Note (dimensions)	Height without connector Height with connector: 166 mm



Mechanical data	
Mounting type	DIN-35 rail

Material data	
Fire load	0 MJ
Weight	1450 g

Environmental requirements	
Ambient temperature (operation)	-25 ... +70 °C (Device starts at -40 °C (type-tested))
Ambient temperature (storage)	-40 ... +85 °C
Relative humidity	5 ... 96 % (no condensation permissible)
Derating	See instruction leaflet
Climatic category	3K3 (per EN 60721)
Operating altitude (max.)	5000 m

Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61010-1 EN 61010-2-201 EN 61204-3 UL 61010-1 UL 61010-2-201 SEMI F47

Commercial data	
ETIM 9.0	EC002540
ETIM 8.0	EC002540
PU (SPU)	1 pcs
Packaging type	Box
Country of origin	CN
GTIN	4066966121391
Customs tariff number	85044083900

Environmental Product Compliance	
RoHS Compliance Status	Compliant, No Exemption

Approvals / Certificates

General approvals			Declarations of conformity and manufacturer's declarations		
 			Approval	Standard	Certificate Name
EAC	TP TC 004/2011	EAC CoC 03080	EU-Declaration of Confor- mity	-	-
GZO Almaty Standart			WAGO GmbH & Co. KG		
EAC	TP TC 020/2011	EAC CoC 03081	MFD for SEMI F47	-	-
GZO Almaty Standart			WAGO GmbH & Co. KG		
UL	UL 61010-2-201	E255817			
Underwriters Laboratories Inc.					



Approvals for hazardous areas



Approval	Standard	Certificate Name
UL Underwriters Laboratories Inc. (HAZARDOUS LOCA- TIONS)	UL 121201	E198726

Downloads

Environmental Product Compliance

Compliance Search
Environmental Product Compliance 2787-2157



Documentation

Manual
Product Manual Power supply; Pro 2; 1-phase; 48 VDC output voltage; 10 A output current;

V 1.0.2
18.02.2022

pdf
8365.79 KB



Bid Text
2787-2157
11.05.2022
xml 8.80 KB
2787-2157
11.05.2022
docx 32.55 KB



Instruction Leaflet
Power supply; Pro 2; 1- phase; 48 VDC output voltage; 10 A output current;

V 1.0.0
03.05.2021

pdf
4328.65 KB



CAD/CAE-Data

CAD data
2D/3D Models 2787-2157



Runtime Software

Firmware
2787-2157, Stromver- sorgung; Pro 2

V 010513
15.10.2021

zip
987.09 KB





1 Compatible Products

1.1 Product Expansions

1.1.1 Communication module



[Item No.: 2789-9023](#)
Communication module; EtherNet/IP;
MQTT; communication capability



[Item No.: 2789-9080](#)
Communication module; IO-Link; commu-
nication capability



[Item No.: 2789-9015](#)
Communication module; Modbus RTU;
RJ45; communication capability



[Item No.: 2789-9052](#)
Communication module; Modbus TCP;
communication capability

1.2 Optional Accessories

1.2.1 Marking

1.2.1.1 Marker carrier



[Item No.: 2789-1233](#)
Marker carrier; for WMB or marking strips;
Length: 33 mm