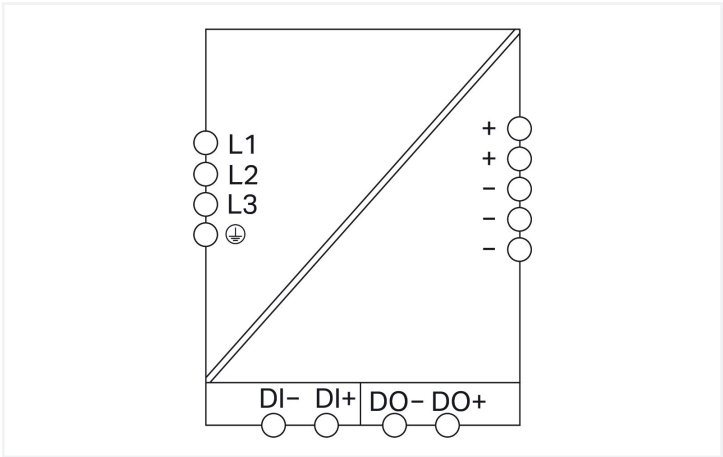




Features:

- 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	3	Nominal output voltage $U_{o\ nom}$	DC 48 V (SELV)
Nominal input voltage $U_{i\ nom}$	3 x AC 400 ... 500 V (connection without neutral conductor)	Default Setting	DC 48 V
Input voltage range	3 x AC 340 ... 550 V	Nominal output current $I_{o\ nom}$	10 A (48 VDC)
Nominal mains frequency range	50 ... 60 Hz	Nominal output power	480 W
Input current I_i	$\leq 3 \times 0.8\ A$ (400 VAC; 48 VDC / 10 A)	Deviation	$\leq 1\ \%$
Inrush current	$\leq 15\ A$ (after 1 ms)	Residual ripple	$\leq 70\ mV$ (peak-to-peak)
Power factor correction (PFC)	Active	Current limitation	$1.1 \times I_{o\ nom}$ (typ.)
Mains failure hold-up time	$\geq 20\ ms$ (3 x 400 VAC)	Overload behavior	TopBoost/PowerBoost/Time-limited constant current mode (other overload behaviors can be set)
		PowerBoost	DC 15 A (5 s)



Output	
TopBoost	Up to 600 %

Signaling and communication	
Signaling	Digital signal input and output (DI/DO) Optical status indication (DC OK; load; warning and error states)
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	≤ 3.6 W (standby); ≤ 4.4 W (no load); ≤ 21 W (nominal load)
Efficiency (typ.)	95 %

Circuit protection	
Internal fuse	3 x T 3.15 A / 500 VAC
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	3 x 16 A (for USA/Canada: 3 x 15 A)

Safety and protection	
Isolation voltage (pri.-sec., AC)	3510 V
Isolation voltage (pri.-PE, AC)	2200 V
Isolation voltage (sec.-PE)	DC 0.5 kV
Isolation voltage (sec.-signal)	DC 0.5 kV
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	> 900,000 h (per IEC 61709)

Connection data	
Connection type 1	Input/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	0.25 ... 1.5 mm² / 20 ... 16 AWG
Fine-stranded conductor; with uninsulated ferrule	0.25 ... 2.5 mm² / 20 ... 14 AWG
Strip length	8 ... 9 mm / 0.31 ... 0.35 inches
Connection type 2	Output
Connection technology 2	Push-in CAGE CLAMP®
WAGO connector 2	WAGO 831 Series
Solid conductor 2	0.5 ... 10 mm² / 20 ... 8 AWG
Fine-stranded conductor 2	0.5 ... 10 mm² / 20 ... 8 AWG
Fine-stranded conductor; with insulated ferrule 2	0.5 ... 6 mm²
Fine-stranded conductor; with uninsulated ferrule 2	0.5 ... 6 mm²
Strip length 2	13 ... 15 mm / 0.51 ... 0.59 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: 169 mm

Mechanical data	
Mounting type	DIN-35 rail

Material data	
Fire load	0 MJ
Weight	1400 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	4066966155877
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-	-	-
GZO Almaty Standart			mity		
			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	UL-US-2131634-0	UK-Declaration of Confor-	-	-
Underwriters Laboratories Inc.			mity		
			WAGO GmbH & Co. KG		

Approvals for hazardous areas		
		
Approval	Standard	Certificate Name
UL	UL 121201	A-E198726
Underwriters Laboratories Inc. (HAZARDOUS LOCATIONS)		

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 2787-2357

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Documentation			
Manual		Bid Text	
Product Manual Power supply; Pro 2; 3-phase; 48 VDC output voltage; 10 A output current;	V 1.0.1 15.02.2022	pdf 8454.96 KB	↓
		2787-2357	11.05.2022
		xml 9.43 KB	↓
		2787-2357	11.05.2022
		docx 31.88 KB	↓

Instruction Leaflet		
Power supply; Pro 2; 3-phase; 48 VDC output voltage; 10 A output current;	V 1.0.0 16.12.2021	pdf 4475.45 KB
		↓



CAD/CAE-Data

CAD data

2D/3D Models
2787-2357

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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

Subject to changes. Please also observe the further product documentation!

Current addresses can be found at: www.wago.com

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