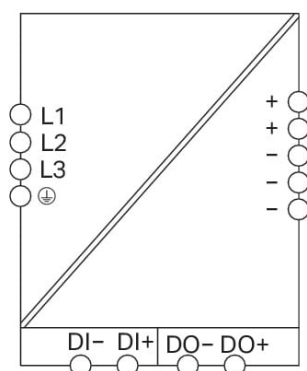


Data Sheet | Item Number: 2787-2347/000-030

Power supply; Pro 2; 3-phase; 24 VDC output voltage; 20 A output current; Top-Boost + PowerBoost; communication capability

<https://www.wago.com/2787-2347/000-030>



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 24 V (SELV)
Nominal input voltage U _{i nom}	3 x AC 400 ... 500 V (connection without neutral conductor)	Output voltage range	DC 24 ... 28 V (adjustable)
Input voltage range	3 x AC 340 ... 550 V	Default setting	DC 24 V
Nominal mains frequency range	50 ... 60 Hz	Nominal output current I _{o nom}	20 A (24 VDC)
Input current I _i	≤ 3 x 0.8 A (400 VAC; 24 VDC / 20 A)	Nominal output power	480 W
Inrush current	≤ 15 A (after 1 ms)	Deviation	≤ 1 %
Power factor correction (PFC)	Active	Residual ripple	≤ 70 mV (peak-to-peak)
Mains failure hold-up time	≥ 20 ms (3 x 400 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)
		PowerBoost	DC 30 A (5 s)
		TopBoost	Up to 600 %
Signaling and communication		Efficiency/power losses	
Signaling	Optical status indication (DC OK; load; warning and error states) Digital signal input and output (DI/DO)	Power loss P _l	≤ 3.6 W (standby); ≤ 4.4 W (No load); ≤ 21 W (400 VAC; nominal load)
Communication	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 (typ.)	95.9 % (400 VAC; 20 A; 25 °C)
Circuit protection			
Internal fuse	3 x T 2.5 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		
Resistance to reverse feed	≤ DC 35 V		
Overvoltage category	III (≤ 2000 m a.s.l.); II (> 2000 m a.s.l.)		
Pollution degree	2		
Transient suppression (primary)	Yes		
Overvoltage protection; secondary	Internal protective circuit ≤ 35 VDC (in the event of a fault)		
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/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
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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 DNV UL HazLoc SEMI F47



Commercial data	
ETIM 8.0	EC002540
ETIM 7.0	EC002540
PU (SPU)	1 pcs
Packaging type	Box
Country of origin	CN
GTIN	4066966117523
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
UL Underwriters Laboratories Inc.	UL 61010-2-201	E255817
		EU-Declaration of Confor- mity WAGO GmbH & Co. KG
		MFD with product refe- rence WAGO GmbH & Co. KG
		UK-Declaration of Confor- mity WAGO GmbH & Co. KG

Approvals for marine applications

		
Approval	Standard	Certificate Name
DNV DNV GL SE	DNV-CG-0339,Aug.2021	TAA00002ZF

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 2787-2347/000-030	



Documentation				
Manual			Bid Text	
Product Manual Power Supply; Pro 2; 3-phase; DC 24 V; 20 A	V 1.1.0 15.02.2022	pdf 8406.49 KB	2787-2347/000-030 14.03.2022	xml 9.62 KB
			2787-2347/000-030 14.03.2022	docx 30.54 KB

Instruction Leaflet			
WAGO Stromversorgung Pro 2	V 1.1.0 26.04.2021	pdf 4607.34 KB	

CAD/CAE-Data	
CAD data	
2D/3D Models 2787-2347/000-030	

1 Compatible Products				
1.1 Optional Accessories				
1.1.1 Communication				
1.1.1.1 Communication module				
				
Item No.: 2789-9023 Communication module; EtherNet/IP; MQTT; communication capability	Item No.: 2789-9080 Communication module; IO-Link; communication capability	Item No.: 2789-9015 Communication module; Modbus RTU; RJ45; communication capability	Item No.: 2789-9052 Communication module; Modbus TCP; communication capability	

1.1.2 Marking	
1.1.2.1 Marker carrier	
	
Item No.: 2789-1233 Marker carrier; for WMB or marking strips; Length: 33 mm	