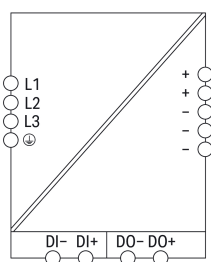


Data Sheet | Item Number: 2787-2347/000-030

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}	24 VDC (SELV)
Nominal input voltage U _{i nom}	3 x 400 ... 500 VAC (connection without neutral conductor)	Output voltage range	24 ... 28 VDC (adjustable)
Input voltage range	3 x 340 ... 550 VAC	Default Setting	24 VDC
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	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	30 ADC (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)
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 (typ.)	95.9 % (400 VAC; 20 A; 25 °C)
Circuit Protection			
Internal fuse	3 x T 2.5 A / 500 VAC		
Pre-fuse (required)	An external DC fuse is required for the DC input voltage.		
Backup fuse (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)		0.5 kVDC	
Isolation voltage (sec.-signal)		0.5 kVDC	
Protection class		I	
Protection type		IP20; per EN 60529	
Resistance to reverse feed		≤ 35 VDC	
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 1		Connection 2	
Connection type	Input/signaling	Connection type	Output
Connection technology	CAGE CLAMP®	Connection technology	Push-in CAGE CLAMP®
WAGO connector	WAGO 721 Series	WAGO connector	WAGO 831 Series
Solid conductor	0.08 ... 2.5 mm² / 28 ... 12 AWG	Solid conductor	0.5 ... 10 mm² / 20 ... 8 AWG
Fine-stranded conductor	0.08 ... 2.5 mm² / 28 ... 12 AWG	Fine-stranded conductor	0.5 ... 10 mm² / 20 ... 8 AWG
Fine-stranded conductor; with insulated ferrule	0.25 ... 1.5 mm² / 20 ... 16 AWG	Fine-stranded conductor; with insulated ferrule	0.5 ... 6 mm²
Fine-stranded conductor; with uninsulated ferrule	0.25 ... 2.5 mm² / 20 ... 14 AWG	Fine-stranded conductor; with uninsulated ferrule	0.5 ... 6 mm²
Strip length	8 ... 9 mm / 0.31 ... 0.35 inches	Strip length	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	DNV EN 61010-1 EN 61010-2-201 EN 61204-3 SEMI F47 UL 61010-1 UL 61010-2-201 UL 121201 (HazLoc)



Commercial data		
PU (SPU)		1 pcs
Packaging type		Box
Country of origin		CN
GTIN		4066966117523
Customs tariff number		85044083900

Product Classification		
UNSPSC		39121004
ETIM 9.0		EC002540
ETIM 10.0		EC002540
ECCN		NO US CLASSIFICATION

Environmental Product Compliance		
RoHS Compliance Status		Compliant,No Exemption

Approvals / Certificates

General approvals



Approval	Standard	Certificate Name
EAC GZO Almaty Standart	TP TC 004/2011	EAC CoC 03080
EAC GZO Almaty Standart	TP TC 020/2011	EAC CoC 03081
UL Underwriters Laboratories Inc.	UL 61010-2-201	E255817

Declarations of conformity and manufacturer's declarations

Approval	Standard	Certificate Name
EU-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-
MFD for SEMI F47 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			
Product Manual Power Supply; Pro 2; 3-phase; DC 24 V; 20 A	V 1.1.0 15.02.2022	pdf 8406.49 KB	

Bid Text			
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 Product Expansions

1.1.1 Communication Module



Item No.: 2789-9023
Communication module; EtherNet/IP; MQTT Pub/Sub; 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

1.2 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