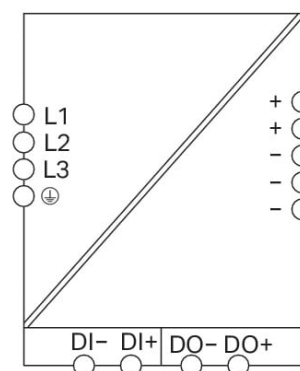


Data Sheet | Item Number: 2787-2346/000-030

Power supply; Pro 2; 3-phase; 24 VDC output voltage; 10 A output current; Top-Boost + PowerBoost; communication capability

<https://www.wago.com/2787-2346/000-030>



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 $I_{o\,nom}$	10 A (24 VDC)
Input current I_i	$\leq 3 \times 0.6$ A (400 VAC; 24 VDC / 10 A)	Nominal output power	240 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	$1.1 \times I_{o\,nom}$ (typ.)
		Overload behavior	TopBoost/PowerBoost/Time-limited constant current mode (other overload behaviors can be set)
		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)
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/power losses	
Power loss P_l	≤ 3 W (standby); ≤ 3 W (No load); ≤ 18 W (400 VAC; nominal load)
Efficiency (typ.)	94.1 % (400 VAC; 10 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	$\leq$ 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	$> 1,000,000$ 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	50 mm / 1.969 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	1000 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 SEMI F47



Commercial data		
PU (SPU)		1 pcs
Country of origin		CN
GTIN		4066966265958
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
Approval	Standard	Certificate Name	EU-Declaration of Confor-	-	-
UL	UL 61010-2-201	UL-US-2209512-0	mity		
Underwriters Laboratories Inc.			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			Approvals for hazardous areas		
					
Approval	Standard	Certificate Name	Approval	Standard	Certificate Name
DNV	DNV-CG-0339,Aug.2021	TAA00002ZF	UL	UL 121201	A-E198726
DNV GL SE			Underwriters Laboratories Inc. (HAZARDOUS LOCATIONS)		

Downloads	
Environmental Product Compliance	
Compliance Search	
Environmental Product Compliance 2787-2346/000-030	

Manual			
Product Manual Power supply; Pro 2; 3-phase; 24 VDC output voltage; 10 A output current	V 1.0.1 15.02.2022	pdf 8120.46 KB	

Stromversorgung Pro 2	V 1.1.0	pdf	
	03.03.2022	4602.62 KB	

CAD data	
2D/3D Models	
2787-2346/000-030	

1.1 Optional Accessories

1.1.1.1 Communication module



Item No.: 2789-9023

Communication module; EtherNet/IP;
MQTT; communication capability

1.1.2.1 Marker carrier

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



Item No.: 2789-1233

Marker carrier; for WMB or marking strips;
Length: 33 mm