Power supply; Pro 2; 1-phase; 24 VDC output voltage; 20 A output current;



TopBoost + PowerBoost; communication capability

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Item description

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/IPTM, 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

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■ Marker slot for WAGO marking cards (WMB) and WAGO marking strips

Data Technical data

Input

Phases	1
Nominal input voltage U _{i nom}	1 x AC 100 240 V
Input voltage range	1 x AC 90 264 V; DC 130 240 V
Nominal mains frequency range	50 60 Hz
Input current I _i	≤ 2.2 A (240 VAC; nominal load); ≤ 5.9 A (100 VAC; nominal load)
Inrush current	≤ 12 A (after 1 ms)
Power factor	≥ 0.98 (240 VAC)
Power factor correction (PFC)	active
Mains failure hold-up time	≥ 24 ms (230 VAC)

Output

Nominal output voltage U _{o nom}	DC 24 V (SELV)
Output voltage range	DC 24 28 V (adjustable)
Default setting	DC 24 V
Nominal output current I o nom	20 A (24 VDC)
Nominal output power	480 W
Deviation	≤ 1 %
Residual ripple	≤ 70 mV (peak-to-peak)
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

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)

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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.)	95.4 % (230 VAC; 20 A; 25 °C)

Circuit protection

Internal fuse	T 10 A / 250 VAC
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	16 A (for USA/Canada: 15 A)

Safety and protection

Isolation voltage (prisec., AC)	3,510 V
Isolation voltage (priPE, AC)	2,200 V
Isolation voltage (secPE)	DC 0.5 kV
Isolation voltage (secsignal)	DC 0.5 kV
Protection class	1
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

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0.08 2.5 mm ² / 28 12 AWG
0.25 1.5 mm² / 20 16 AWG
0.25 2.5 mm² / 20 14 AWG
8 9 mm / 0.31 0.35 inches
Output
Push-in CAGE CLAMP [®]
WAGO 831 Series
0.5 10 mm² / 20 8 AWG
0.5 10 mm² / 20 8 AWG
0.5 6 mm²
0.5 6 mm²
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	0.797 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	-1 %/V (> +40 °C and $\rm U_i$ < 100 VAC); -3 %/K (> +55 °C and $\rm U_i$ < 230
	VAC); -3 %/K (> +60 °C and $U_i \ge 230$ VAC); -5 %/V ($U_o > 24$ VDC)
Climatic category	3K3 (per EN 60721)
Operating altitude (max.)	5000 m

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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 8.0	EC002540
ETIM 7.0	EC002540
Recupel Type	
PU (SPU)	1 pcs
Packaging type	Box
Country of origin	CN
GTIN	4055143878364
Customs tariff number	85044083900

Environmental Product Compliance

RoHS Compliance Status	Compliant,No Exemption
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Approvals / Certificates

General approvals

			Certificate
Logo	Approval	Additional Approval Text	name
	UL	UL 61010-2-201	E255817
	Underwriters Laboratories Inc.		

Declarations of conformity and manufacturer's declarations

		A 1 1991 1 A 1 	Certificate
Logo	Approval	Additional Approval Text	name
	EU-Declaration of Conformity	-	-
	WAGO GmbH & Co. KG		
	MFD with product reference	-	-
	WAGO GmbH & Co. KG		
	UK-Declaration of Conformity	-	-
	WAGO GmbH & Co. KG		

Approvals for hazardous areas

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Logo	Approval	Additional Approval Text	Certificate name
	UL	UL 121201	A-
	Underwriters Laboratories Inc. (HAZARDOUS		E198726
	LOCATIONS)		

Optional accessories

Communi	cation cable	
	Item no.: 750-923/000-001 Configuration cable; USB connector; Length: 5 m	www.wago.com/750-923 /000-001
Tool		
Operating	tool	
	Item no.: 210-721 Operating tool; Blade: 5.5 x 0.8 mm; with a partially insulated shaft; multicoloured	www.wago.com/210-721
	Item no.: 210-720 Operating tool; Blade: 3.5×0.5 mm; with a partially insulated shaft; multicoloured	www.wago.com/210-720
Marking ac	cessories	
Marking s	trip	
	Item no.: 2009-110	
	Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white	www.wago.com/2009-110
Marker ca	rrier	
	Item no.: 2789-1233	www.wago.com/2789-1233
	Marker carrier; for WMB or marking strips; Length: 33 mm	www.wago.com/2769-1255
Marker		
	Item no.: 2009-115	www.wago.com/2009-115
	WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white	www.wago.com/2009-115
Communica	ation	
Communi	cation module	
	Item no.: 2789-9080	www.wogo.com/2700.0000
	Communication module; IO-Link; communication capability	www.wago.com/2789-9080
	Item no.: 2789-9015	
	Communication module; Modbus RTU; RJ45; communication capability	www.wago.com/2789-9015
	Item no.: 2789-9052	www.wogo.com/2700.0050
	Communication module; Modbus TCP; communication capability	www.wago.com/2789-9052
	Item no.: 2789-9023	www.wago.com/2789-9023
	Communication module; EtherNet/IP; communication capability	

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Communication cable

Item no.: 750-923 Configuration cable; USB connector; Length: 2.5 m

www.wago.com/750-923

Downloads

Documentation

Manual

Product Manual Power supply; Pro 2; 1-phase; 24 VDC output voltage; 20 A output current	V 1.0.0	pdf 8.5 MB	Download
TopBoost + PowerBoost; communication capability	2022 年7月20 日	8.5 MB	
Bid Text			
2787-2147_EUSA	2019 年7月4日	docx	Download
docx - Datei		23.8 kB	
2787-2147_EUSA	2019 年7月4日	xml	Download
X81 - Datei		8.1 kB	
ausschreiben.de 2787-2147		URL	Download
Instruction Leaflet			
WAGO Stromversorgung Pro 2	V 1.1.0	pdf	Download
1-phasig; DC 24 V / 20 A	2021 年4月26日	4.6 MB	
Additional Information			
Disposal and Recycling	V 1.1.0	pdf	Download
Electrical and electronic equipment, Batteries, Packaging	2022 年8月18日	2.2 MB	

Engineering-Software

Configuration and Commissioning Software

WAGO Interface Configuration Software G2 FULL	1.00.10.01	exe	Download
The full setup, in addition to the WAGO Interface Configuration Software G2, include	S 2022年1月20日	114.9 MB	
the installation for the Microsoft .NET Framework.			
WACO Interface Configuration Coffusion C2 CMALL	1.00.10.01	0.40	Download
WAGO Interface Configuration Software G2 SMALL	1.00.10.01	exe	Download
The full setup only includes the WAGO Interface Configuration Software G2.	2022 年1月20日	31.0 MB	

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WAGO IO-Link Configurator

WAGO IO-Link Configurator

V5.1.1-6618

ZIP

2022 年2月16日

91.8 MB

WAGO IO-Link Configurator allows configuration, parameterization, operation and monitoring of WAGO IO-Link Masters in the WAGO I/O System 750 and WAGO I/O System Field, and especially of the WAGO IO-Link devices connected to them.

Additionally, WAGO IO-Link Configurator can be used for complete configuration and operation of all IO-Link devices of third-party manufacturers, as long as they comply with the IO-Link specification. A product's process data can be visualized graphically and stored in trend curves. Up to eight elements can be selected for visualization, and the data can be recorded for up to 24 hours.

Device description files for the IO-Link Masters (IOLM) or IO-Link Devices (IODD) can be used to integrate new devices into the tool at any time. Convenient access to the IO-Link user organization's IODDfinder is available for the IODDs. This allows automated, selective download of IODDs when integrating new IO-Link devices. An integrated IODD viewer allows detailed insight into the IODD device description.

WAGO IO-Link Configurator can be used either as a standalone program or integrated into engineering systems with a TCI interface and WAGO-I/O-CHECK.

IO-Link Configurator can also be used to integrate the IO-Link Master (750-657) of the WAGO I/O System 750 Series and to access all the configurator's functions. This is made possible by the WAGO I/O System 750 IO-Link Adapter, which can be retrofitted. The WAGO I/O System 750 IO-Link Adapter requires the current version of WAGO IO-Link Configurator and a current version of WAGO-I/O-CHECK.

In addition, the download file contains the device descriptions for the respective fieldbus systems of the WAGO I/O System Field modules. These are pre-installed in the Configurator setup.

The WAGO IO-Link Configurator license is assigned to the specific PC on which it is installed (a workstation license).

Register now and test our engineering software for 30 days at no cost.

Runtime Software

Firmware

2787-2147, Stromversorgung; Pro 2

V 010513

zip

Download

WAGO_FW2787-2147_V010513_W

2021年10月12日

1.1 MB

CAD/CAE-Data

CAE data

EPLAN Data Portal 2787-2147

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ZUKEN Portal 2787-2147

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CAD data

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Environmental Product Compliance

Compliance Search

Environmental Product Compliance 2787-2147

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Power supply; Pro 2; 1-phase; 24 VDC output voltage; 20 A output current; TopBoost

+ PowerBoost; communication capability

Installation Notes

Product family

Pro 2

Show all products from the family

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