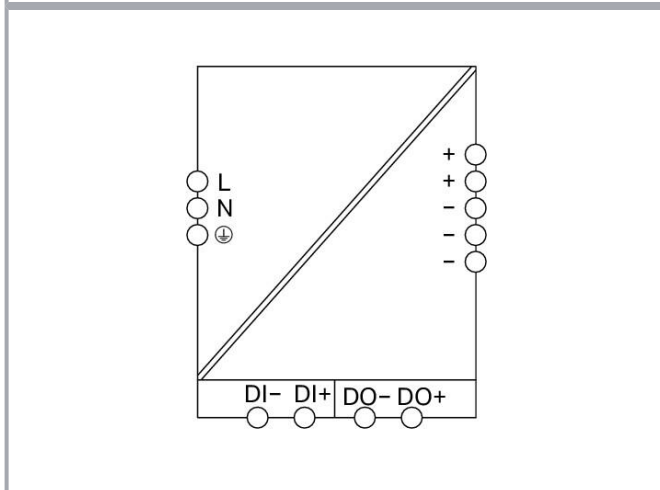


Data sheet | Item number: 2787-2146

Power supply; Pro 2; 1-phase; 24 VDC output voltage; 10 A output current;
TopBoost + PowerBoost; communication capability

www.wago.com/2787-2146



Item description

Features:

- Power supply with TopBoost, PowerBoost and configurable overload behavior

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

WAGO GmbH & Co. KG
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- 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

Data

Technical data

Input

Phases	1
Nominal input voltage $U_{i\text{ nom}}$	1 x AC 100 ... 240 V
Input voltage range	1 x AC 90 ... 264 V
Nominal mains frequency range	50 ... 60 Hz
Input current I_i	≤ 1.2 A (240 VAC; Nominal load); ≤ 2.7 A (100 VAC; Nominal load)
Inrush current	≤ 11 A (after 1 ms)
Power factor correction (PFC)	Active
Mains failure hold-up time	≥ 25 ms (230 VAC)

Output

Nominal output voltage $U_{o\text{ nom}}$	DC 24 V (SELV)
Output voltage range	DC 24 ... 28 V (adjustable)
Default setting	DC 24 V
Nominal output current $I_{o\text{ nom}}$	10 A (24 VDC)
Nominal output power	240 W
Deviation	≤ 1 %
Residual ripple	≤ 70 mV (peak-to-peak)
Current limitation	$1.1 \times I_{o\text{ nom}}$ (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 %

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Signaling and communication

Signaling	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_I	$\leq 1 \text{ W}$ (standby); $\leq 2.2 \text{ W}$ (No load); $\leq 12 \text{ W}$ (230 VAC; nominal load)
Efficiency (typ.)	95.2 % (230 VAC; 10 A; 25 °C)

Circuit protection

Internal fuse	T 6.3 A / 250 VAC
Backup fusing (recommended)	16 A (for USA/Canada: 15 A)

Safety and protection

Isolation voltage (pri.-sec., AC)	3,510 V
Isolation voltage (pri.-PE, AC)	2,200 V
Isolation voltage (sec.-PE)	DC 0.5 kV
Protection class	I
Protection type	IP20; per EN 60529
Overvoltage category	III ($\leq 2000 \text{ m a.s.l.}$); II ($> 2000 \text{ m a.s.l.}$)
Pollution degree	2
Transient suppression (primary)	Yes
Overvoltage protection; secondary	Internal protective circuit $\leq 35 \text{ VDC}$ (in the event of a fault)
Short-circuit-protected	Yes
Open-circuit-proof	Yes
Parallel operation	Yes
Series operation	Yes
MTBF	$> 1,200,000 \text{ h}$ (per IEC 61709)

Connection data

Connection type 1	Input/Output/Signaling
Connection technology	CAGE CLAMP®

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



WAGO connector	WAGO 721 Series
Solid conductor	0.08 ... 2.5 mm ² / 28 ... 12 AWG
Fine-stranded conductor	0.08 ... 2.5 mm ² / 28 ... 12 AWG
Fine-stranded conductor; with insulated ferrule	0.25 ... 1.5 mm ² / 20 ... 16 AWG
Fine-stranded conductor; with uninsulated ferrule	0.25 ... 2.5 mm ² / 20 ... 14 AWG
Strip length	8 ... 9 mm / 0.31 ... 0.35 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
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Material data

Weight	1000 g
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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	-3 %/K (> +55 °C and $U_i < 230$ VAC); -3 %/K (> +60 °C and $U_i \geq 230$ VAC)
Climatic category	3K3 (per EN 60721)
Operating altitude (max.)	5000 m

Standards and specifications

Conformity marking	CE
Standards/specifications	SEMI F47 EN 61010-1 EN 61010-2-201 EN 61204-3 UL 61010-1 UL 61010-2-201

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Commercial data

ETIM 8.0	EC002540
ETIM 7.0	EC002540
Recupel Type	
PU (SPU)	1 pcs
Packaging type	box
Country of origin	CN
GTIN	4055143907330
Customs tariff number	85044083900

Environmental Product Compliance

RoHS Compliance Status	Compliant, No Exemption
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Approvals / Certificates

General approvals

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

Declarations of conformity and manufacturer's declarations

Logo	Approval	Additional Approval Text	Certificate name
	EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-
	MFD for SEMI F47 WAGO GmbH & Co. KG	-	-
	UK-Declaration of Conformity WAGO GmbH & Co. KG	-	-

Approvals for hazardous areas

Certificate

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

Optional accessories

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 x 0.5 mm; with a partially insulated shaft; multicoloured

www.wago.com/210-720

Marking accessories

Marking strip



Item no.: 2009-110

Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white

www.wago.com/2009-110

Marker carrier



Item no.: 2789-1233

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

www.wago.com/2789-1233

Marker



Item no.: 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

Cables and pluggable connectors

Communication cable



Item no.: 750-923/000-001

Configuration cable; USB connector; Length: 5 m

www.wago.com/750-923/000-001

Communication

Communication module



Item no.: 2789-9080

Communication module; IO-Link; communication capability

www.wago.com/2789-9080

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**Item no.: 2789-9052**

Communication module; Modbus TCP; communication capability

www.wago.com/2789-9052**Item no.: 2789-9023**

Communication module; EtherNet/IP; MQTT; communication capability

www.wago.com/2789-9023

Communication cable

**Item no.: 750-923**

Configuration cable; USB connector; Length: 2.5 m

www.wago.com/750-923

Other

**Item no.: 2789-9015**

Communication module; Modbus RTU; RJ45; communication capability

www.wago.com/2789-9015**Downloads****Documentation****Manual**

Product Manual Power supply; Pro 2; 1-phase; 24 VDC output voltage; 10 A output current	V 1.0.0 2022 Jul 20	pdf 8.4 MB	Download
TopBoost + PowerBoost; communication capability			

Bid Text

2787-2146_EUSA X81 - Datei	2019 Jul 4	xml 8.1 kB	Download
2787-2146_EUSA docx - Datei	2019 Jul 4	docx 23.9 kB	Download
ausschreiben.de 2787-2146		URL	Download

Instruction Leaflet

WAGO Pro 2 Power Supplies 1-phase; 24 VDC / 10 A	V 1.1.0 2021 Apr 26	pdf 4.6 MB	Download
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Additional Information

Disposal and Recycling Electrical and electronic equipment, Batteries, Packaging	V 1.1.0 2022 Aug 18	pdf 2.2 MB	Download
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Engineering-Software

Configuration and Commissioning Software

WAGO Interface Configuration Software G2 SMALL	1.00.10.01	exe	Download
The full setup only includes the WAGO Interface Configuration Software G2.	2022 Jan 20	31.0 MB	
WAGO Interface Configuration Software G2 FULL	1.00.10.01	exe	Download
The full setup, in addition to the WAGO Interface Configuration Software G2, includes the installation for the Microsoft .NET Framework.	2022 Jan 20	114.9 MB	

Runtime Software

Firmware

2787-2146, Stromversorgung; Pro 2	V 010513	zip	Download
WAGO_FW2787-2146_V010513_W	2021 Oct 13	1.2 MB	

CAD/CAE-Data

CAE data

ZUKEN Portal 2787-2146	URL	Download
EPLAN Data Portal 2787-2146	URL	Download

CAD data

2D/3D Models 2787-2146	URL	Download
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Asset Administration Shell

Asset Administration Shell 2787-2146	URL	Download
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Environmental Product Compliance

Compliance Search

Environmental Product Compliance 2787-2146	URL	Download
Power supply; Pro 2; 1-phase; 24 VDC output voltage; 10 A output current; TopBoost + PowerBoost; communication capability		

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



Installation Notes

Product family

Pro 2

[Show all products from the family](#)

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