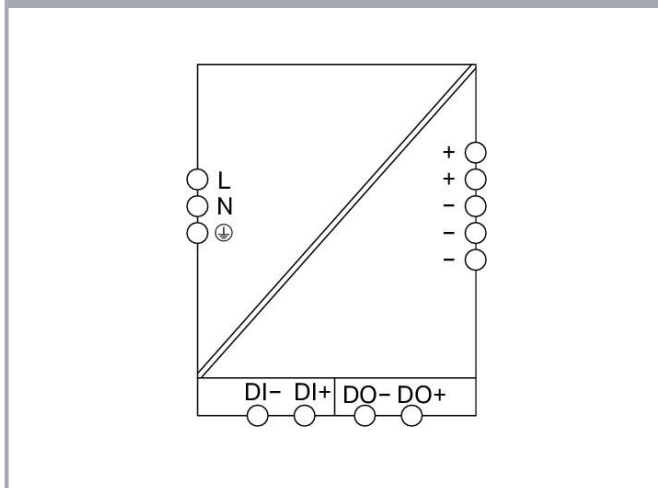


Data sheet | Item number: 2787-2448

Power supply; Pro 2; 1-phase; 24 VDC output voltage; 40 A output current;
TopBoost + PowerBoost; communication capability; Input voltage range: 200
... 240 VAC

www.wago.com/2787-2448



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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Phone: +49571 887-0 | Fax: +49571 887-169
Email: info.de@wago.com | Web: www.wago.com

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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 200 ... 240 V
Input voltage range	1 x AC 180 ... 264 V
Nominal mains frequency range	50 ... 60 Hz
Input current I_i	≤ 4.3 A (240 VAC; Nominal load); ≤ 5.1 A (200 VAC; Nominal load)
Inrush current	≤ 10 A (after 1 ms)
Power factor	≥ 0.98 (240 VAC)
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 $I_{o\text{nom}}$	40 A (24 VDC)
Nominal output power	960 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 60 A (5 s)

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TopBoost

Up to 600 %

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	≤ 1.5 W (standby); ≤ 2.4 W (No load); ≤ 40 W (230 VAC; nominal load)
Efficiency (typ.)	96 % (230 VAC; 40 A; 25 °C); 96.3 % (230 VAC; 30 A; 25 °C)

Circuit protection

Internal fuse	T 10 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 (≤ 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	$> 900,000$ h (per IEC 61709)

Connection data

Connection type 1	Input/Signaling
-------------------	-----------------

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



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	120 mm / 4.724 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	1900 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	-3 %/K (> +55 °C)
Climatic category	3K3 (per EN 60721)

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Operating altitude (max.)	5000 m
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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

Commercial data

ETIM 8.0	EC002540
ETIM 7.0	EC002540
Recupel Type	
PU (SPU)	1 pcs
Packaging type	box
Country of origin	CN
GTIN	4055143878296
Customs tariff number	85044083900

Environmental Product Compliance

RoHS Compliance Status	Compliant, No Exemption
------------------------	-------------------------

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	-	-

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Approvals for hazardous areas

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

Optional accessories

Communication

Communication module		
	Item no.: 2789-9080 Communication module; IO-Link; communication capability	www.wago.com/2789-9080
	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

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	

Cables and pluggable connectors

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



Item no.: 750-923/000-001

Configuration cable; USB connector; Length: 5 m

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

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

Downloads

Documentation

Manual

Product Manual Power supply; Pro 2; 1-phase; 24 VDC output voltage; 40 A output current

V 1.0.0

pdf

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2022 Jul 20

8.7 MB

TopBoost + PowerBoost; communication capability; Input voltage range: 200br/... 240 VAC

Bid Text

2787-2448_EUSA

2019 Jul 4

docx
23.7 kB

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docx - Datei

2787-2448_EUSA

2019 Jul 4

xml
8.1 kB

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X81 - Datei

Instruction Leaflet

WAGO Stromversorgung Pro 2

V 1.1.0

pdf

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1-phasig; DC 24 V / 40 A

2021 Apr 21

4.6 MB

Additional Information

Disposal and Recycling

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Electrical and electronic equipment, Batteries, Packaging

V 1.1.0
2022 Aug 18pdf
2.2 MB

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Application Notes

Application note SIEMENS

Application Note STEP 7 Power supply Pro 2 2787-2xxx with IO-Link Interface (a2019011)

2020-04-07
2020 Apr 7zip
6.3 MB

Download

This Application Note explains how the WAGO power supply (2787-2448) with IO-link interface is integrated into the SIMATIC Manager V5.5.

Application Note TIA Portal
Power supply Pro 2 with IO-Link Interface (a2019010)2020-04-07
2020 Apr 7zip
12.2 MB

Download

This application note describes how to integrate a WAGO Pro2 power supply (2787-24xx) with IO-link interface in the TIA Portal V15. The power supplies are used in combination with a WAGO IO-Link master or a Siemens IO-Link master.

Application Note e!COCKPIT

e!COCKPIT Application Note WagoAppPowerSupply (a2019012)

1.1.1
2021 Dec 6pdf
724.0 kB

Download

In this Application Note, an example project for the library "WagoAppPowerSupply" is described. The power supply Pro 2 is connected to an IO-Link master module 750-657.

Engineering-Software

Configuration and Commissioning Software

WAGO Interface Configuration Software G2 SMALL

1.00.10.01
2022 Jan 20exe
31.0 MB

Download

The full setup only includes the WAGO Interface Configuration Software G2.

WAGO Interface Configuration Software G2 FULL

1.00.10.01
2022 Jan 20exe
114.9 MB

Download

The full setup, in addition to the WAGO Interface Configuration Software G2, includes the installation for the Microsoft .NET Framework.

Runtime Software

Firmware

2787-2448, Stromversorgung; Pro 2

V 010513
2021 Oct 12zip
1.2 MB

Download

WAGO_FW2787-2448_V010513_W

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CAD/CAE-Data

CAE data

EPLAN Data Portal 2787-2448	URL	Download
ZUKEN Portal 2787-2448	URL	Download

CAD data

2D/3D Models 2787-2448	URL	Download
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Asset Administration Shell

Asset Administration Shell 2787-2448	URL	Download
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Environmental Product Compliance

Compliance Search

Environmental Product Compliance 2787-2448	URL	Download
Power supply; Pro 2; 1-phase; 24 VDC output voltage; 40 A output current; TopBoost + PowerBoost; communication capability; Input voltage range: 200 ... 240 VAC		

Installation Notes

Product family

Pro 2
[Show all products from the family](#)

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