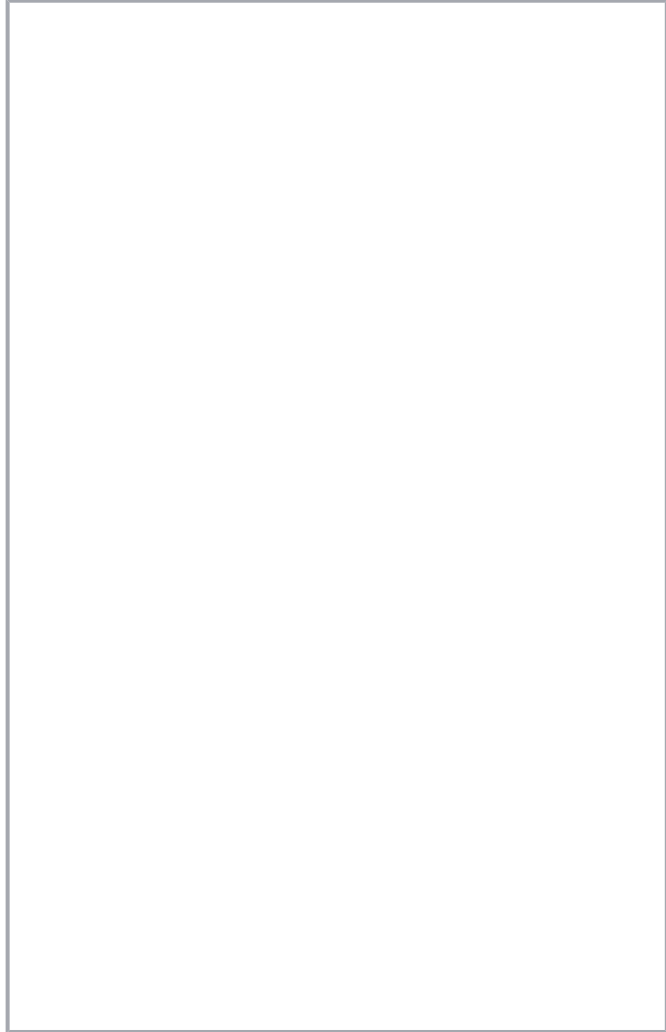


Data sheet | Item number: 2787-2448

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



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

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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/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

—
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- Marker slot for WAGO marking cards (WMB) and WAGO marking strips

Data

Technical data

Input

| | |
|---|--|
| Phases | 1 |
| Nominal input voltage $U_{i\text{nom}}$ | 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) |
| 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) |

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

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 (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 (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 |
| Oversvoltage category | III (≤ 2000 m a.s.l.); II (> 2000 m a.s.l.) |
| Pollution degree | 2 |
| Transient suppression (primary) | Yes |
| Oversvoltage 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 |
| Connection technology | CAGE CLAMP® |
| 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 |

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

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| | |
|---|--|
| 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 |
| Connection type 2 | Output |
| Connection technology 2 | Push-in CAGE CLAMP® |
| WAGO connector 2 | WAGO 831 Series |
| Solid conductor 2 | 0.5 ... 10 mm ² / 20 ... 8 AWG |
| Fine-stranded conductor 2 | 0.5 ... 10 mm ² / 20 ... 8 AWG |
| Fine-stranded conductor; with insulated ferrule 2 | 0.5 ... 6 mm ² |
| Fine-stranded conductor; with uninsulated ferrule 2 | 0.5 ... 6 mm ² |
| 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) |
| Operating altitude (max.) | 5000 m |

Standards and specifications

| | |
|--------------------------|----------|
| Conformity marking | CE |
| Standards/specifications | SEMI F47 |

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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 | - | - |

Approvals for hazardous areas

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

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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

Communication

Communication module

Item no.: 2789-9080
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
Communication module; Modbus TCP; communication capability www.wago.com/2789-9052

Item no.: 2789-9023
Communication module; EtherNet/IP; 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

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

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Downloads

Documentation

Manual

| | | | |
|---|-------------------------|---------------|----------|
| Product Manual Power supply; Pro 2; 1-phase; 24 VDC output voltage; 40 A output current TopBoost + PowerBoost; communication capability; Input voltage range: 200br/... 240 VAC | V 1.0.0 2022 年7月20 日 | pdf 8.7 MB | Download |
|---|-------------------------|---------------|----------|

Bid Text

| | | | |
|--------------------------------|-------------|-----------------|----------|
| 2787-2448_EUSA docx - Datei | 2019 年7月4 日 | docx 23.7 kB | Download |
| 2787-2448_EUSA X81 - Datei | 2019 年7月4 日 | xml 8.1 kB | Download |

Instruction Leaflet

| | | | |
|--|-------------------------|---------------|----------|
| WAGO Stromversorgung Pro 2 1-phasig; DC 24 V / 40 A | V 1.1.0 2021 年4月21 日 | pdf 4.6 MB | Download |
|--|-------------------------|---------------|----------|

Additional Information

| | | | |
|---|-------------------------|---------------|----------|
| Disposal and Recycling Electrical and electronic equipment, Batteries, Packaging | V 1.1.0 2022 年8月18 日 | pdf 2.2 MB | Download |
|---|-------------------------|---------------|----------|

Application Notes

Application note SIEMENS

| | | | |
|--|---------------------------|---------------|----------|
| Application Note STEP 7 Power supply Pro 2 2787-2xxx with IO-Link Interface (a2019011) This Application Note explains how the WAGO power supply (2787-2448) with IO-link interface is integrated into the SIMATIC Manager V5.5. | 2020-04-07 2020 年4月7 日 | zip 6.3 MB | Download |
|--|---------------------------|---------------|----------|

| | | | |
|---|---------------------------|----------------|----------|
| Application Note TIA Portal Power supply Pro 2 with IO-Link Interface (a2019010) 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. | 2020-04-07 2020 年4月7 日 | zip 12.2 MB | Download |
|---|---------------------------|----------------|----------|

Application Note e!COCKPIT

e!COCKPIT Application Note WagoAppPowerSupply (a2019012)

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| | | | |
|--|----------------------|-----------------|----------|
| 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. | 1.1.1 2021 年12月6日 | pdf 724.0 kB | Download |
|--|----------------------|-----------------|----------|

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 年1月20日 | 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 年1月20日 | 114.9 MB | |

WAGO IO-Link Configurator

| | | | |
|--|-------------|---------|----------|
| WAGO IO-Link Configurator | V5.1.1-6618 | ZIP | Download |
| 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. | 2022 年2月16日 | 91.8 MB | |

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

| | | | |
|-----------------------------------|----------|-----|----------|
| 2787-2448, Stromversorgung; Pro 2 | V 010513 | zip | Download |
|-----------------------------------|----------|-----|----------|

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



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 |
|--|---------------------|--------------------------|

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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