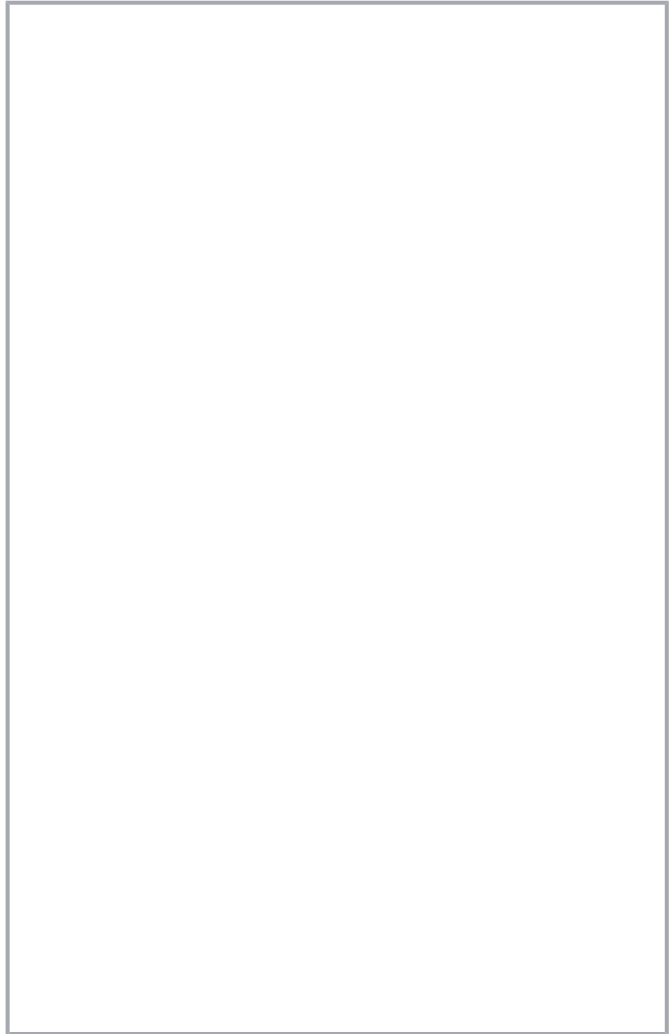
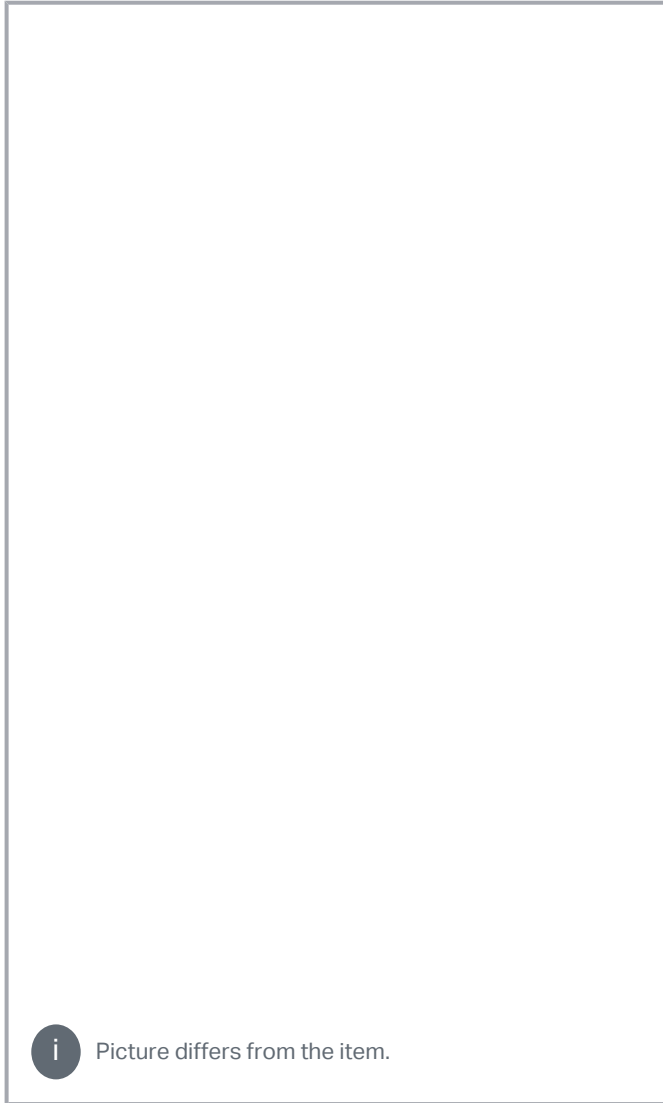


Data sheet | Item number: 2787-2347/000-030

Power supply; Pro 2; 3-phase; 24 VDC output voltage; 20 A output current;
TopBoost + PowerBoost; communication capability with hazardous locations
approvals

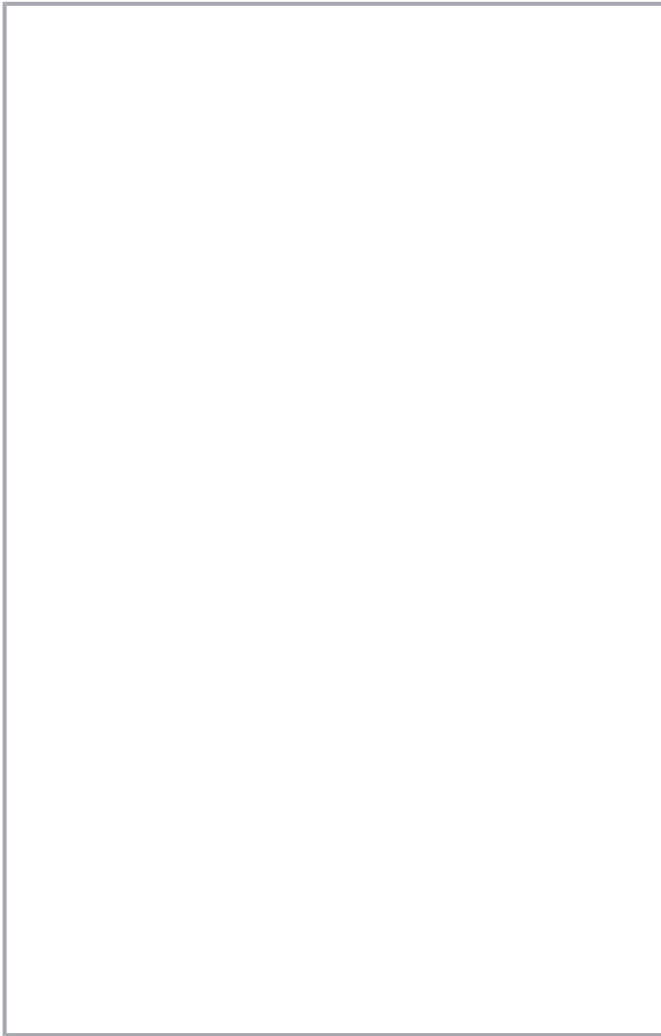
www.wago.com/2787-2347_000-030



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
- 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

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Data

Technical data

Input

Phases	3
Nominal input voltage [V]	3 x AC 400 ... 500 V (connection without neutral conductor)
Input voltage range	3 x AC 340 ... 550 V
Nominal mains frequency range	50 ... 60 Hz
Input current I_i	$\leq 3 \times 0.8 \text{ A}$ (400 VAC; 24 VDC / 20 ADC)
Inrush current	$\leq 15 \text{ A}$ (after 1 ms)
Power factor correction (PFC)	Active
Mains failure hold-up time	$\geq 20 \text{ ms}$ (3 x 400 VAC)

Output

Nominal output voltage [V]	DC 24 V (SELV)
Output voltage range	DC 24 ... 28 V (adjustable)
Default setting	DC 24 V
Nominal output current $I_{o \text{ nom}}$	20 A (24 VDC)
Nominal output power	480 W
Deviation	$\leq 1 \%$
Residual ripple	$\leq 70 \text{ mV}$ (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 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) Optical status indication (DC OK; load; warning and error states) Digital signal input and output (DI/DO)
Communication	IO-Link (with 2789-9080 module) Modbus RTU (with 2789-9015 module) Modbus TCP (with 2789-9052 module) RS232 (with 750-923 cable)

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



Efficiency/power losses

Power loss P_l	≤ 3.6 W (Standby); ≤ 4.4 W (No load); ≤ 21 W (400 VAC; Nominal load)
Efficiency (typ.)	95.9 % (400 VAC; 20 A; 25 °C)

Circuit protection

Internal fuse	3 x T 2.5 A / 500 VAC
Required backup fusing	An external DC fuse is required for the DC input voltage. An external DC fuse is required for the DC input voltage.
Recommended backup fusing	3 x 16 A (for USA/Canada: 3 x 15 A) 3 x 16 A (for USA/Canada: 3 x 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
Isolation voltage (Sec.-Signal)	DC 0.5 kV
Protection class	I
Protection type	IP20
Note on protection type	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) 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

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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 inch
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 inch

Physical data

Width	70 mm / 2.756 inch
Height	130 mm / 5.118 inch
Depth from upper-edge of DIN-rail	130 mm / 5.118 inch
Note (dimensions)	Height without connector Height with connector: 169 mm Height without connector Height with connector: 169 mm

Mechanical data

Mounting type	DIN-35 rail DIN-35 rail
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Material data

Weight	1400 g
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Environmental requirements

Ambient temperature (operation)	-25 ... +70 °C (Device starts at -40 °C (type-tested))
Surrounding air temperature (storage)	-40 ... +85 °C
Relative humidity	5 ... 96 % (no condensation permissible)
Derating	See instruction leaflet
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 DNV GL UL HazLoc

Commercial data

PU (SPU)	1 Pieces
Packaging type	box
Country of origin VKOrg Germany	DE
GTIN	4055144138320
Customs tariff number VKOrg Germany	85044082900

Approvals / Certificates


Ex-Approvals

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

Ship Approvals

Logo	Approval	Additional Approval Text	Certificate name
	DNV DNV Germany GmbH	DNV-CG-0339,Aug.2021	TAA00002ZF

UL-Approvals

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

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Downloads

Documentation

Manual

Power Supply; Pro 2; 3-phase; DC 24 V; 20 A TopBoost + PowerBoost; Communication capability	V 1.1.0 2022 Feb 15	pdf 8.6 MB	Download
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Instruction Leaflet

WAGO Stromversorgung Pro 2 3-phasisig; Ausgangsspannung DC 24 V; Ausgangsstrom 20 A; TopBoost + PowerBoost; kommunikationsfähig	V 1.1.0 2021 Apr 26	pdf 4.7 MB	Download
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Additional Information

Disposal; Electrical and electronic equipment, Packaging	V 1.0.0	pdf 265.8 kB	Download
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Engineering-Software

WAGO IO-Link Configurator

WAGO IO-Link Configurator	V5.1.1-6618 2022 Feb 16	ZIP 91.8 MB	Download
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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.

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Environmental Product Compliance

Compliance Search

Environmental Product Compliance 2787-2347/000-030	URL	Download
Power supply; Pro 2; 3-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](#)

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