

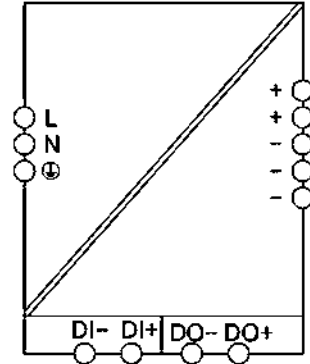
Data sheet | Item number: 2787-2144/000-030 **ANNOUNCED**

Power supply; Pro 2; 1-phase; 24 VDC output voltage; 5 A output current;
TopBoost + PowerBoost; communication capability

www.wago.com/2787-2144_000-030



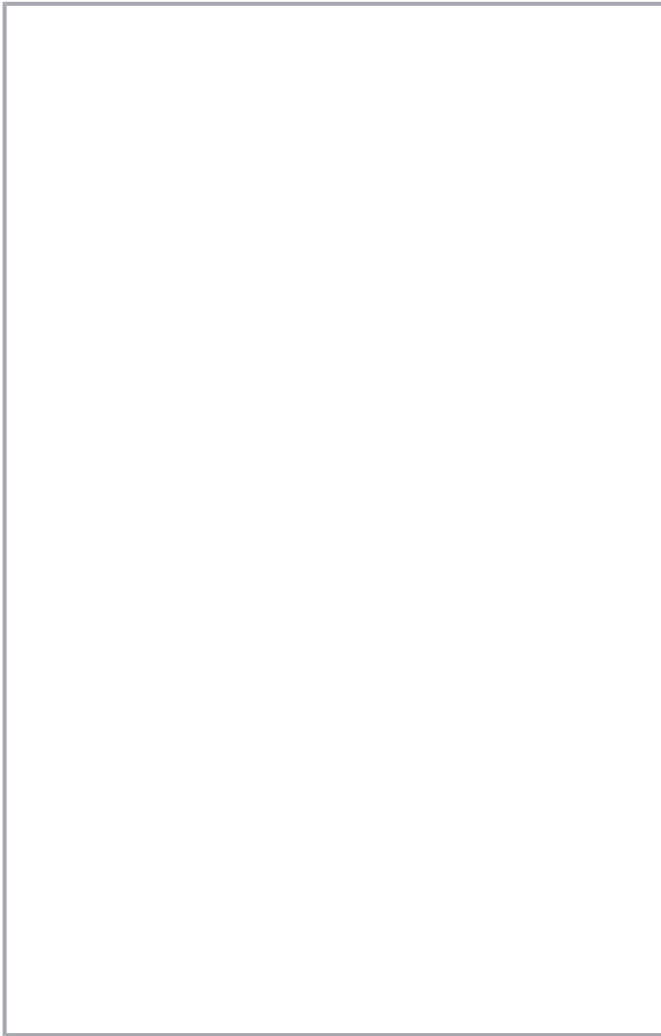
 Picture differs from the item.



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

WAGO Corporation
Germantown, WI 53022
Phone: 1-800-DIN-RAIL (346-7245) | Fax: (262) 255-6222
Email: info.us@wago.com | Web: www.wago.us

Do you have any questions about our products?
We are always happy to take your call at +49 (571) 887-44222.



Attention: Product details may be subject to change

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 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/UL 61010

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

WAGO Corporation
Germantown, WI 53022
Phone: 1-800-DIN-RAIL (346-7245) | Fax: (262) 255-6222
Email: info.us@wago.com | Web: www.wago.us

Do you have any questions about our products?
We are always happy to take your call at +49 (571) 887-44222.



- Marker slot for WAGO Marker Cards (WMB) and WAGO Marking Strips

Data

Technical data

Input

Phases	1 1
Nominal input voltage [V]	AC 100 ... 240 V
Input voltage range	AC 90 ... 264 V; DC 130 ... 240 V
Nominal mains frequency range	47 ... 63 Hz; 0 Hz
Input current I_i	≤ 1 A (240 VAC; Nominal load); ≤ 1.8 A (100 VAC; Nominal load)
Inrush current	≤ 9 A (after 1 ms)
Power factor correction (PFC)	Active
Mains failure hold-up time	≥ 20 ms (230 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 $I_{o\text{ nom}}$	5 A (24 VDC)
Nominal output power	120 W
Control 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 7.5 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)

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

WAGO Corporation
Germantown, WI 53022
Phone: 1-800-DIN-RAIL (346-7245) | Fax: (262) 255-6222
Email: info.us@wago.com | Web: www.wago.us

Do you have any questions about our products?
We are always happy to take your call at +49 (571) 887-44222.



Modbus TCP (with 2789-9052 module)
RS232 (with 750-923 cable)

Efficiency/power losses

Power loss P_l	$\leq 1 \text{ W (Standby)}; \leq 2 \text{ W (No load)}; \leq 10 \text{ W (230 VAC; Nominal load)}$
Efficiency (typ.)	93.8 % (230 VAC; 5 A; 25 °C)

Circuit protection

Internal fuse	T 6.3 A / 250 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	16 A (for USA/Canada: 15 A) 16 A (for USA/Canada: 15 A)

Safety and protection

Isolation voltage (pri.-sec., AC)	3,510 V
Isolation voltage (pri.-GND, AC)	2,200 V
Isolation voltage (Sec.-GND)	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	$\leq \text{DC } 35 \text{ V}$
Overvoltage category	III ($\leq 2000 \text{ m a. s.l.}$); II ($> 2000 \text{ m a. s.l.}$)
Pollution degree	2
Transient suppression (primary)	Yes
Short-circuit-protected	Yes
Open-circuit-proof	Yes
Parallel operation	Yes
Series operation	Yes
MTBF	$> 1,000,000 \text{ h (per IEC 61709)}$

Connection data

Connection type (1)	Input/output/signaling
Connection technology	CAGE CLAMP®
WAGO Connector	WAGO 721 Series

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

WAGO Corporation
Germantown, WI 53022
Phone: 1-800-DIN-RAIL (346-7245) | Fax: (262) 255-6222
Email: info.us@wago.com | Web: www.wago.us

Do you have any questions about our products?
We are always happy to take your call at +49 (571) 887-44222.



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	2.5 ... 1.5 mm ² / 12 ... 16 AWG
Fine-stranded conductor; with uninsulated ferrule	1.5 ... 0.08 mm ² / 16 ... 28 AWG
Strip length	8 ... 9 mm / 0.31 ... 0.35 inch

Physical data

Width	35 mm / 1.378 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: 166 mm Height without connector Height with connector: 166 mm

Mechanical data

Mounting type	DIN-35 rail DIN-35 rail
---------------	----------------------------

Material data

Weight	650 g
--------	-------

Environmental requirements

Surrounding air 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	siehe Beipackzettel
Operating altitude (max.)	5000 m

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 DNVGL UL HazLoc

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

WAGO Corporation
Germantown, WI 53022
Phone: 1-800-DIN-RAIL (346-7245) | Fax: (262) 255-6222
Email: info.us@wago.com | Web: www.wago.us

Do you have any questions about our products?
We are always happy to take your call at +49 (571) 887-44222.



Commercial data

PU (SPU)	1 Stück
Packaging type	box
Country of origin	CN
GTIN	4055144138337
Customs tariff number	85044082900

Downloads

Documentation

Instruction Leaflet

WAGO Pro 2 Power Supplies 1-phase; 24 VDC / 5 A	V 1.1.0 2021 Apr 26	pdf 4.6 MB	Download
--	------------------------	---------------	----------

Additional Information

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

Engineering-Software

WAGO IO-Link Configurator

WAGO IO-Link Configurator	V5.1.1-6015 2021 Aug 24	ZIP 159.6 MB	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.

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).

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

WAGO Corporation
Germantown, WI 53022
Phone: 1-800-DIN-RAIL (346-7245) | Fax: (262) 255-6222
Email: info.us@wago.com | Web: www.wago.us

Do you have any questions about our products?
We are always happy to take your call at +49 (571) 887-44222.



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

Runtime Software

Firmware

Stromversorgung; Pro 2; 1-phasig; Ausgangsspannung DC 24 V; Ausgangsstrom 5 A; V010513 TopBoost + PowerBoost; kommunikationsfähig	2021 Oct 13	zip 1.1 kB	Download
WAGO_FW2787-2144_V010513_W.ZIP			

Installation Notes

Product family

Pro 2

[Show all products from the family](#)

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

WAGO Corporation
Germantown, WI 53022
Phone: 1-800-DIN-RAIL (346-7245) | Fax: (262) 255-6222
Email: info.us@wago.com | Web: www.wago.us

Do you have any questions about our products?
We are always happy to take your call at +49 (571) 887-44222.