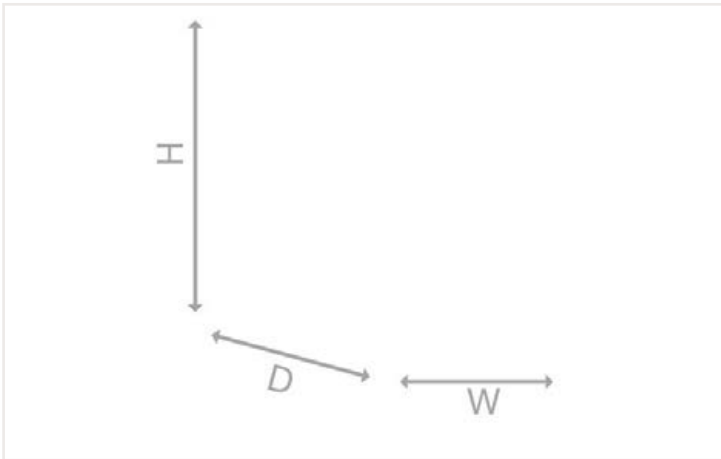
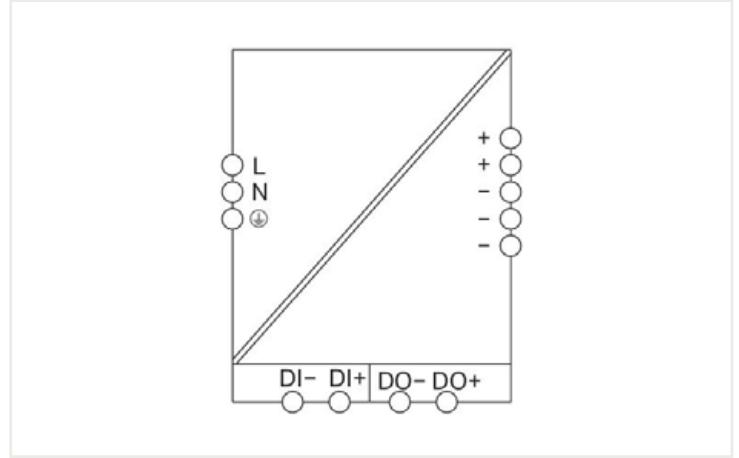


|: 2787-2448

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



<https://www.wago.com/2787-2448>



**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

**Technical data**

Input	
Phases	1
Nominal input voltage $U_{i, nom}$	1 x AC 200 ... 240 V
Input voltage range	1 x AC 180 ... 264 V
Nominal mains frequency range	50 ... 60 Hz
Input current $I_i$	$\leq 4.3$ A (240 VAC; nominal load); $\leq 5.1$ A (200 VAC; nominal load)
Inrush current	$\leq 10$ A (after 1 ms)
Power factor	$\geq 0.98$ (240 VAC)
Power factor correction (PFC)	active

Input	
Mains failure hold-up time	$\geq 25$ ms (230 VAC)

## Output

Nominal output voltage $U_{o, nom}$	DC 24 V (SELV)
Output voltage range	DC 24 ... 28 V (adjustable)
Default setting	DC 24 V
Nominal output current $I_{o, nom}$	40 A (24 VDC)
Nominal output power	960 W
Deviation	$\leq 1 \%$
Residual ripple	$\leq 70$ mV (Peak-to-peak)
Current limitation	$1.1 \times I_{o, nom}$ (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 %

## Efficiency/power losses

Power loss $P_1$	$\leq 1.5$ W (Standby); $\leq 2.4$ W (No load); $\leq 40$ W (230 VAC; nominal load)
Efficiency (typ.)	96 % (230 VAC; 40 A; 25 °C); 96.3 % (230 VAC; 30 A; 25 °C)

## Safety and protection

Isolation voltage (pri.-sec., AC)	3510 V
Isolation voltage (pri.-PE, AC)	2200 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 ( $\leq 2000$ m a. s.l.); II (
Pollution degree	2
Transient suppression (primary)	Yes
Overvoltage protection; secondary	Internal protective circuit $\leq 35$ VDC (in the event of a fault)
Short-circuit-protected	Yes
Open-circuit-proof	Yes
Parallel operation	Yes
Series operation	Yes
MTBF	

## Signaling and communication

Signaling	Optical status indication (DC OK; load; warning and error states) Digital signal input and output (DI/DO)
Communication	Communication interface, can be used with WAGO USB Communication Cable (750-923) or IO-Link Communication Module (2789-9080), Modbus RTU Communication Module (2789-9015) or Modbus TCP Communication Module (2789-9052)

## Circuit protection

Internal fuse	T 10 A / 250 VAC
Required backup fusing	An external DC fuse is required for the DC input voltage.
Recommended backup fusing	16 A (for USA/Canada: 15 A)

## Connection data

Connection type 1	Input/signaling
Connection technology	CAGE CLAMP®
WAGO connector	WAGO 721 Series
Solid conductor	0.08 ... 2.5 mm <sup>2</sup> / 28 ... 12 AWG
Fine-stranded conductor	0.08 ... 2.5 mm <sup>2</sup> / 28 ... 12 AWG
Fine-stranded conductor; with insulated ferrule	0.25 ... 1.5 mm <sup>2</sup> / 20 ... 16 AWG
Fine-stranded conductor; with uninsulated ferrule	0.25 ... 2.5 mm <sup>2</sup> / 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 <sup>2</sup> / 20 ... 8 AWG
Fine-stranded conductor 2	0.5 ... 10 mm <sup>2</sup> / 20 ... 8 AWG
Fine-stranded conductor; with insulated ferrule 2	0.5 ... 6 mm <sup>2</sup>

### Connection data

Fine-stranded conductor; with uninsulated ferrule 2	0.5 ... 6 mm <sup>2</sup>
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
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### Material data

Fire load	0.59 MJ
Weight	1900 g

### 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	-3 %/K (
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

### Commercial data

ETIM 8.0	EC002540
ETIM 7.0	EC002540
PU (SPU)	1 Stück
Packaging type	Box
Country of origin VKOrg Germany	CN
GTIN	4055143878296
Customs tariff number VKOrg Germany	85044082900

## Approvals and certificates

### UL-Approvals



UL Underwriters Laboratories Inc.	UL 61010-2-201	E255817
UL Underwriters Laboratories Inc.	UL 121201	A-E198726

## Downloads

### Environmental Product Compliance


#### Compliance Search

Environmental Product  
Compliance 2787-2448





## Documentation



### Manual

Power supply; Pro 2; 1- phase; 24 VDC output voltage; 40 A output current	V 1.2.2 18.02.2022	pdf 8514.86 KB	
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### Additional Information

Disposal; Electrical and electronic equipment, Packaging	V 1.0.0	pdf 259.56 KB	
Application Note STEP 7 Power supply Pro 2 2787-2xxx with IO-Link Interface (a2019011)	2020-04-07 07.04.2020	zip 6128.55 KB	

### Bid Text

2787-2448_EUSA	04.07.2019	docx 23.16 KB	
2787-2448_EUSA	04.07.2019	xml 7.95 KB	

### Instruction Leaflet


WAGO Stromversor- gung Pro 2	V 1.1.0 21.04.2021	pdf 4500.37 KB	
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## Application Notes




### Application Note e!COCKPIT

e!COCKPIT Application Note WagoAppPower- Supply (a2019012)	1.1.1 06.12.2021	pdf 707.04 KB	
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### Application note SIEMENS

Application Note TIA Portal Power supply Pro 2 with IO-Link Interface (a2019010)	2020-04-07 07.04.2020	zip 11946.49 KB	
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## CAD/CAE-Data

CAD data		CAE data	
2D/3D Models 2787-2448		EPLAN Data Portal 2787-2448	
		ZUKEN Portal 2787-2448	

## Engineering-Software

Software for Interface-Products			
WAGO Interface Configuration Software G2 FULL	1.0.8.6 20.01.2022	exe 111289.67 KB	
WAGO Interface Configuration Software G2 SMALL	1.0.8.6 20.01.2022	exe 29307.84 KB	

## Runtime Software

Firmware			
2787-2448, Stromversorgung; Pro 2	V 010513 12.10.2021	zip 1187.52 KB	

## Libraries

Device Description File			
Device description files 2787-2448	1.1 17.09.2019	zip 131.96 KB	