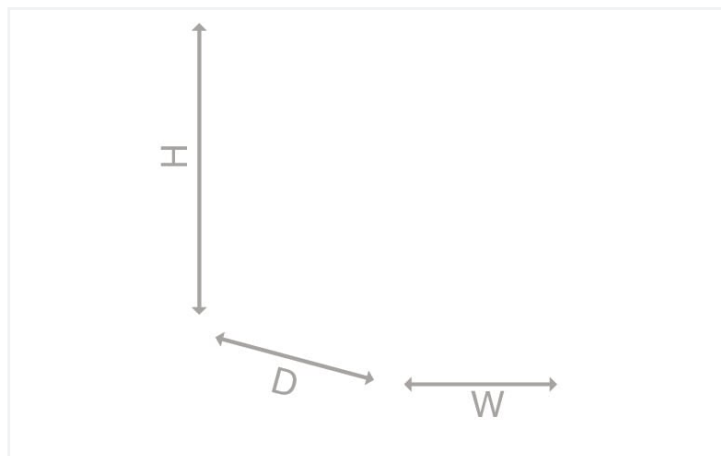
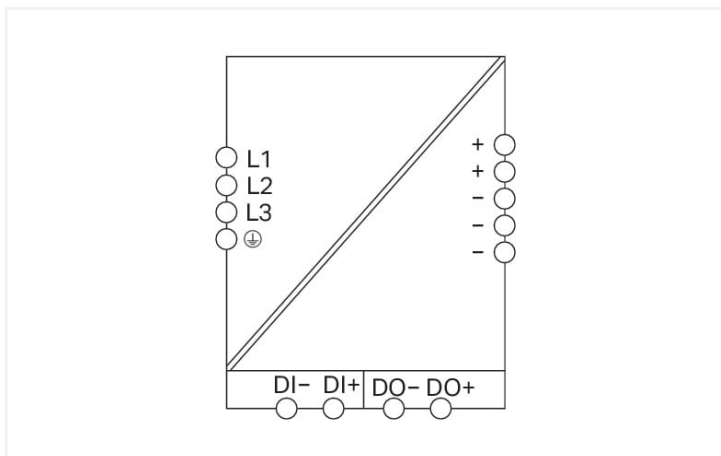


# Data Sheet | Item Number: 2787-2357

Power supply; Pro 2; 3-phase; 48 VDC output voltage; 10 A output current; Top-Boost + PowerBoost; communication capability

<https://www.wago.com/2787-2357>



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

Technical data		Output	
<b>Input</b>		Nominal output voltage $U_{o, nom}$	DC 48 V (SELV)
Phases	3	Default setting	DC 48 V
Nominal input voltage $U_{i, nom}$	3 x AC 400 ... 500 V (Connection without neutral conductor)	Nominal output current $I_{o, nom}$	10 A (48 VDC)
Input voltage range	3 x AC 340 ... 550 V	Nominal output power	480 W
Nominal mains frequency range	50 ... 60 Hz	Deviation	≤ 1 %
Input current $I_i$	≤ 3 x 0.8 A (400 VAC; 48 VDC / 10 A)	Residual ripple	≤ 70 mV (Peak-to-peak)
Inrush current	≤ 15 A (after 1 ms)	Current limitation	1.1 x $I_{o, nom}$ (typ.)
Power factor correction (PFC)	active	Overload behavior	TopBoost/PowerBoost/Time-limited constant current mode (other overload behaviors can be set)
Mains failure hold-up time	≥ 20 ms (3 x 400 VAC)	PowerBoost	DC 15 A (5 s)

## Output

TopBoost	up to 600 %
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## Signaling and Communication

Signaling	Optical status indication (DC OK; load; warning and error states) Digital signal input and output (DI/DO)
Communication	USB (Communication Cable 750-923) Ethernet/IP (Communication Module 2789-9023) IO-Link (Communication Module 2789-9080) Modbus RTU (Communication Module 2789-9015) Modbus TCP (Communication Module 2789-9052)

## Efficiency/power losses

Power loss $P_1$	$\leq 3.6$ W (Standby); $\leq 4.4$ W (No load); $\leq 21$ W (Nominal load)
Efficiency (typ.)	95 %

## Circuit protection

Internal fuse	3 x T 3.15 A / 500 VAC
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	3 x 16 A (for USA/Canada: 3 x 15 A)

## 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; per EN 60529
Overvoltage category	III ( $\leq 2000$ m a.s.l.); II ( $> 2000$ 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	$> 900,000$ 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 <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>
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	70 mm / 2.756 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 MJ
Weight	1400 g

### Environmental requirements

Ambient temperature (operation at $U_N$ )	-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

### 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 pcs
Country of origin	CN
GTIN	4066966155877
Customs tariff number	85044083900

### Approvals / Certificates

#### General approvals



Approval	Standard	Certificate Name
UL Underwriters Laboratories Inc.	UL 61010-2-201	UL-US-2131634-0

#### Approvals for hazardous areas



Approval	Standard	Certificate Name
UL Underwriters Laboratories Inc. (HAZARDOUS LOCA- TIONS)	UL 121201	A-E198726

### Downloads

### Environmental Product Compliance

Compliance Search

Environmental Product  
Compliance 2787-2357



Documentation

Manual

Product Manual Power supply; Pro 2; 3-phase; 48 VDC output voltage; 10 A output current;	V 1.0.1 15.02.2022	pdf 8454.96 KB	
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Bid Text

2787-2357	11.05.2022	xml 9.43 KB	
2787-2357	11.05.2022	docx 31.88 KB	

Instruction Leaflet

Power supply; Pro 2; 3-phase; 48 VDC output voltage; 10 A output current;	V 1.0.0 16.12.2021	pdf 4475.45 KB	
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CAD/CAE-Data

CAD data

2D/3D Models 2787-2357	
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1 Compatible Products

1.1 Optional Accessories

1.1.1 Communication

1.1.1.1 Communication module



[Item No.: 2789-9023](#)

Communication module; EtherNet/IP; communication capability

[Item No.: 2789-9080](#)

Communication module; IO-Link; communication capability

[Item No.: 2789-9015](#)

Communication module; Modbus RTU; RJ45; communication capability

[Item No.: 2789-9052](#)

Communication module; Modbus TCP; communication capability

1.1.2 Marking

1.1.2.1 Marker carrier



[Item No.: 2789-1233](#)

Marker carrier; for WMB or marking strips; Length: 33 mm

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

Current addresses can be found at: [www.wago.com](http://www.wago.com)