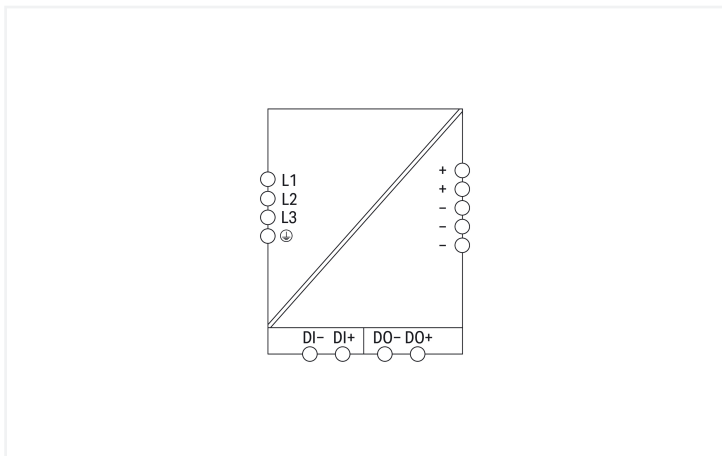


# Data Sheet | Item Number: 2787-2347/000-030

Power supply; Pro 2; 3-phase; 24 VDC output voltage; 20 A output current; Top-Boost + PowerBoost; communication capability

<https://www.wago.com/2787-2347/000-030>



## 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

Input		Output	
Phases	3	Nominal output voltage $U_{o, nom}$	24 VDC (SELV)
Nominal input voltage $U_{i, nom}$	3 x 400 ... 500 VAC (connection without neutral conductor)	Output voltage range	24 ... 28 VDC (adjustable)
Input voltage range	3 x 340 ... 550 VAC	Default Setting	24 VDC
Nominal mains frequency range	50 ... 60 Hz	Nominal output current $I_{o, nom}$	20 A (24 VDC)
Input current $I_i$	$\leq 3 \times 0.8 \text{ A}$ (400 VAC; 24 VDC / 20 A)	Nominal output power	480 W
Inrush current	$\leq 15 \text{ A}$ (after 1 ms)	Deviation	$\leq 1 \%$
Power factor correction (PFC)	Active	Residual ripple	$\leq 70 \text{ mV}$ (peak-to-peak)
Mains failure hold-up time	$\geq 20 \text{ ms}$ (3 x 400 VAC)	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	30 ADC (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)
Communications	USB (750-923 Communication Cable) EtherNet/IP™ (2789-9023 Communication Module) IO-Link (2789-9080 Communication Module) Modbus RTU (Communication Module 2789-9015) Modbus TCP (2789-9052 Communication Module)

## Efficiency/Power Losses

Power loss $P_I$	$\leq 3.6 \text{ W}$ (standby); $\leq 4.4 \text{ W}$ (no load); $\leq 21 \text{ W}$ (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
Pre-fuse (required)	An external DC fuse is required for the DC input voltage.
Backup fuse (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)	0.5 kVDC
Isolation voltage (sec.-signal)	0.5 kVDC
Protection class	I
Protection type	IP20; per EN 60529
Resistance to reverse feed	$\leq 35 \text{ VDC}$
Overvoltage category	III ( $\leq 2000 \text{ m a.s.l.}$ ); II ( $> 2000 \text{ m a.s.l.}$ )
Pollution degree	2
Transient suppression (primary)	Yes
Overvoltage protection; secondary	Internal protective circuit $\leq 35 \text{ VDC}$ (in the event of a fault)
Short-circuit-protected	Yes
Open-circuit-proof	Yes
Parallel operation	Yes
Series operation	Yes
MTBF	$> 800,000 \text{ h}$ (per IEC 61709)

## Connection Data

### Connection 1

Connection type	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 2

Connection type	Output
Connection technology	Push-in CAGE CLAMP®
WAGO connector	WAGO 831 Series
Solid conductor	0.5 ... 10 mm <sup>2</sup> / 20 ... 8 AWG
Fine-stranded conductor	0.5 ... 10 mm <sup>2</sup> / 20 ... 8 AWG
Fine-stranded conductor; with insulated ferrule	0.5 ... 6 mm <sup>2</sup>
Fine-stranded conductor; with uninsulated ferrule	0.5 ... 6 mm <sup>2</sup>
Strip length	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)	-25 ... +70 °C (Device starts at -40 °C (type-tested))
Ambient temperature (storage)	-40 ... +85 °C
Relative humidity	5 ... 96 % (no condensation permissible)
Derating	See instruction leaflet
Climatic category	3K3 (per EN 60721)
Operating altitude (max.)	5000 m

## Standards and Specifications

Conformity marking	CE
Standards/specifications	DNV EN 61010-1 EN 61010-2-201 EN 61204-3 SEMI F47 UL 61010-1 UL 61010-2-201 UL 121201 (HazLoc)

### Commercial data

PU (SPU)	1 pcs
Packaging type	Box
Country of origin	CN
GTIN	4066966117523
Customs tariff number	85044083900

### Product Classification

UNSPSC	39121004
ETIM 9.0	EC002540
ETIM 10.0	EC002540
ECCN	NO US CLASSIFICATION

### Environmental Product Compliance

RoHS Compliance Status	Compliant, No Exemption
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### Approvals / Certificates

#### General approvals



Approval	Standard	Certificate Name
EAC GZO Almaty Standart	TP TC 004/2011	EAC CoC 03080
EAC GZO Almaty Standart	TP TC 020/2011	EAC CoC 03081
UL Underwriters Laboratories Inc.	UL 61010-2-201	E255817

#### Declarations of conformity and manufacturer's declarations

Approval	Standard	Certificate Name
EU-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-
MFD for SEMI F47 WAGO GmbH & Co. KG	-	-
UK-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-

#### Approvals for marine applications



Approval	Standard	Certificate Name
DNV DNV GL SE	DNV-CG-0339, Aug. 2021	TAA00002ZF

#### Approvals for hazardous areas



Approval	Standard	Certificate Name
UL Underwriters Laboratories Inc. (HAZARDOUS LOCATIONS)	UL 121201	E198726

## Downloads

### Environmental Product Compliance

Compliance Search	
Environmental Product Compliance 2787-2347/000-030	<a href="#">↓</a>

## Documentation

Manual			
Product Manual Power Supply; Pro 2; 3-phase; DC 24 V; 20 A	V 1.1.0 15.02.2022	pdf 8406.49 KB	<a href="#">↓</a>

Bid Text			
2787-2347/000-030	14.03.2022	xml 9.62 KB	<a href="#">↓</a>
2787-2347/000-030	14.03.2022	docx 30.54 KB	<a href="#">↓</a>

### Instruction Leaflet

WAGO Stromversorgung Pro 2	V 1.1.0 26.04.2021	pdf 4607.34 KB	<a href="#">↓</a>
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## CAD/CAE-Data

CAD data	
2D/3D Models 2787-2347/000-030	<a href="#">↓</a>

## 1 Compatible Products

### 1.1 Product Expansions

#### 1.1.1 Communication Module



**Item No.: 2789-9023**  
Communication module; EtherNet/IP; MQTT Pub/Sub; 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

### 1.2 Optional Accessories

#### 1.2.1 Marking

##### 1.2.1.1 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)