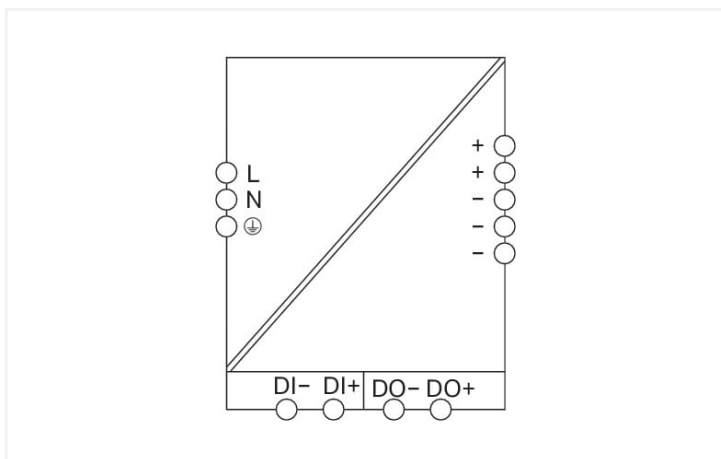


# Data Sheet | Item Number: 2787-2135

Power supply; Pro 2; 1-phase; 12 VDC output voltage; 15 A output current; Top-Boost + PowerBoost; communication capability

<https://www.wago.com/2787-2135>



## 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		
<b>Input</b>		
Phases	1	
Nominal input voltage $U_{i, nom}$	1 x AC 100 ... 240 V	
Input voltage range	1 x AC 90 ... 264 V	
Nominal mains frequency range	50 ... 60 Hz	
Input current $I_i$	$\leq 2$ A (240 VAC; nominal load)	
Inrush current	$\leq 12$ A (after 1 ms)	
Power factor correction (PFC)	Active	
Mains failure hold-up time	$\geq 40$ ms (230 VAC)	
<b>Output</b>		
Nominal output voltage $U_{o, nom}$	DC 12 V (SELV)	
Default setting	DC 12 V	
Nominal output current $I_{o, nom}$	15 A (12 VDC)	
Nominal output power	180 W	
Deviation	$\leq 1$ %	
Residual ripple	$\leq 70$ mV (peak-to-peak)	
Current limitation	1.1 x $I_{o, nom}$ (typ.)	
Overload behavior	TopBoost/PowerBoost/Time-limited constant current mode (other overload behaviors can be set)	
PowerBoost	DC 22.5 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 (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 $P_1$	$\leq 0.8$ W (standby); $\leq 2.3$ W (No load); $\leq 14$ W (230 VAC; nominal load)
Efficiency (typ.)	95.3 %

### Circuit protection

Internal fuse	T 6.3 A / 250 VAC
Backup fusing (recommended)	16 A (for USA/Canada: 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	$> 1,200,000$ h (per IEC 61709)

### Connection data

Connection type 1	Input/output/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	2.5 ... 1.5 mm <sup>2</sup> / 12 ... 16 AWG
Fine-stranded conductor; with uninsulated ferrule	1.5 ... 0.08 mm <sup>2</sup> / 16 ... 28 AWG
Strip length	8 ... 9 mm / 0.31 ... 0.35 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: 166 mm

**Mechanical data**

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

Fire load	0 MJ
Weight	1000 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	EN 61010-1 EN 61010-2-201 EN 61204-3 UL 61010-1 UL 61010-2-201 SEMI F47

**Commercial data**

ETIM 8.0	EC002540
ETIM 7.0	EC002540
PU (SPU)	1 pcs
Country of origin	CN
GTIN	4066966121377
Customs tariff number	85044083900

**Environmental Product Compliance**

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

**General approvals**



Approval	Standard	Certificate Name
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 with product refe- rence WAGO GmbH & Co. KG	-	-

Approvals for hazardous areas



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

Downloads

Environmental Product Compliance

Compliance Search
Environmental Product Compliance 2787-2135 <a href="#">↓</a>

Documentation

Manual
Product Manual Power supply; Pro 2; 1-phase; 12 VDC output voltage; 15 A output current; V 1.0.2 18.02.2022 pdf 8158.38 KB <a href="#">↓</a>

Bid Text			
2787-2135	11.05.2022	xml 8.66 KB	<a href="#">↓</a>
2787-2135	11.05.2022	docx 32.29 KB	<a href="#">↓</a>

Instruction Leaflet
Power supply; Pro 2; 1- phase; 12 VDC output voltage; 15 A output current; V 1.0.0 03.05.2021 pdf 4316.21 KB <a href="#">↓</a>

CAD/CAE-Data

CAD data
2D/3D Models 2787-2135 <a href="#">↓</a>

Runtime Software

Firmware
2787-2135, Stromver- sorgung; Pro 2 V 010513 13.10.2021 zip 987.13 KB <a href="#">↓</a>

## 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; MQTT; 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