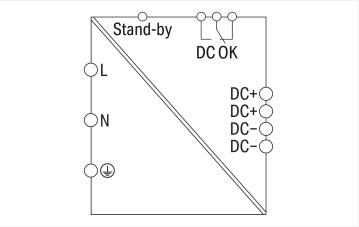
Switched-mode power supply; Pro; 1-phase; 12 VDC output voltage; 10 A output current; TopBoost + PowerBoost; DC OK contact

https://www.wago.com/787-821





Features:

- Switched-mode power supply with PowerBoost and TopBoost
- Switch off the output and minimize power consumption via stand-by input
- Output monitoring via DC OK contact
- Suitable for both parallel and series operation
- · Natural convection cooling when horizontally mounted
- Encapsulated for use in control cabinets
- Electrically isolated output voltage (SELV) per UL 60950-1; PELV per EN 60204

Technical data	
Input	
Phases	1
Nominal input voltage U _{i nom}	1 x 100 240 VAC
Input voltage range	1 x 85 264 VAC; 120 300 VDC
Input voltage derating	-5 %/V (< 95 VAC)
Nominal mains frequency range	50 60 Hz; 0 Hz
Input current I _i	≤ 0.97 A (240 VAC; 10 ADC)
Discharge current	≤ 1 mA
Inrush current	≤ 30 A (peak)
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 35 ms (230 VAC)

Output	
Nominal output voltage U _{o nom}	12 VDC (SELV)
Output voltage range	11 18 VDC (adjustable)
Default Setting	DC 12 V
Nominal output current I _{o nom}	10 A (12 VDC)
Nominal output power	120 W
Deviation	≤ 1 %
Residual ripple	≤ 70 mV (peak-to-peak)
Current limitation	1.1 x I _{o nom} (typ.)
Overload behavior	TopBoost/PowerBoost/Constant current mode
PowerBoost	DC 20 A (4 s); DC 15 A (8 s)
TopBoost	60 ADC (25 ms); 40 ADC (25 ms; U

Signaling and communication	
Signaling	1 x LED DC OK (green) 1 x Error LED (red) 1 x Stand-by input 1 x DC OK relay contact (changeover contact)
Operation status indicator	Green LED (DC OK) Red LED (error)

Efficiency/power losses	
Power loss P ₁	\leq 0.5 W (standby); \leq 5 W (no load); \leq 14.6 W (nominal load)
Efficiency (typ.)	87.8 %

Data Sheet | Item Number: 787-821 https://www.wago.com/787-821



Circuit protection	
Internal fuse	T 4 A / 250 VAC
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	Circuit breaker: 6 A, 10 A, 16 A; Tripping characteristic: B or C

Safety and protection	
Isolation voltage (prisec.)	DC 4.242 kV
Isolation voltage (priPE)	DC 2.2 kV
Isolation voltage (secPE)	0.7 kVDC
Protection class	I
Protection type	IP20; per EN 60529
Resistance to reverse feed	≤ 25 VDC
Overvoltage category	
Pollution degree	2
Transient suppression (primary)	Varistor
Short-circuit-protected	Yes
Open-circuit-proof	Yes
Parallel operation	Yes
Series operation	Yes
MTBF	> 500,000 h (per IEC 61709)

Connection data			
Connection 1		Connection 2	
Connection type 1	Input/output	Connection type	Signaling
Connection technology	CAGE CLAMP®	Connection technology	CAGE CLAMP®
WAGO connector	WAGO 231 Series	WAGO connector 2	WAGO 733 Series
Solid conductor	0.08 2.5 mm² / 28 12 AWG	Solid conductor	0.08 0.5 mm² / 28 20 AWG
Fine-stranded conductor	0.08 2.5 mm² / 28 12 AWG	Fine-stranded conductor	0.08 0.5 mm² / 28 20 AWG
Strip length	8 9 mm / 0.31 0.35 inches	Strip length	5 6 mm / 0.2 0.24 inches

Physical data	
Width	57 mm / 2.244 inches
Height	163 mm / 6.417 inches
Depth from upper-edge of DIN-rail	163 mm / 6.417 inches
Note (dimensions)	Height with connector

Mechanical data	
Mounting type	DIN-35 rail

https://www.wago.com/787-821



Material data

Fire load 0 MJ Weight 1295 g

Environmental requirements Ambient temperature (operation) -25 ... +70 °C (device starts at -40 °C (type-tested)) Ambient temperature (storage) -25 ... +85 °C Relative humidity 5 ... 96 % (no condensation permissible) -3 %/K (> 50 °C) Derating Climatic category 3K3 (per EN 60721)

Standards and specifications

CE Conformity marking

EN 61010-1 Standards/specifications EN 61010-2-201 EN 61204-3

EN 61558-2-16 UL 60950 UL 508

Commercial data

6 (INTERFACE ELECTRONIC) **Product Group**

PU (SPU) 1 pcs Packaging type Box Country of origin DE

GTIN 4050821226482

Customs tariff number 85044083900

Product classification

UNSPSC 39121004 eCl@ss 10.0 27-04-07-01 eCl@ss 9.0 27-04-07-01 ETIM 9.0 EC002540 ETIM 8.0 EC002540 **ECCN** NO US CLASSIFICATION

Environmental Product Compliance

RoHS Compliance Status Compliant, No Exemption

Approvals / Certificates

General approvals







Standard	Certificate Na

Approvai	Standard	Certificate Name
EAC GZO Almaty Standart	TP TC 004/2011	EAC CoC 03078
EAC GZO Almaty Standart	TP TC 020/2011	EAC CoC 03081
UL	UL 508	E255817

General approvals

UL 60950-1

Underwriters Laboratories

E255815

Underwriters Laboratories

Inc.

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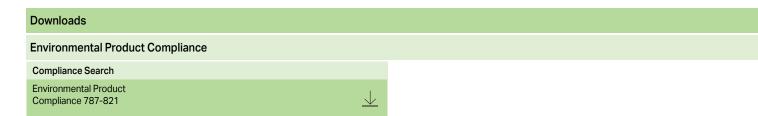


Declarations of conformity and manufacturer's declarations

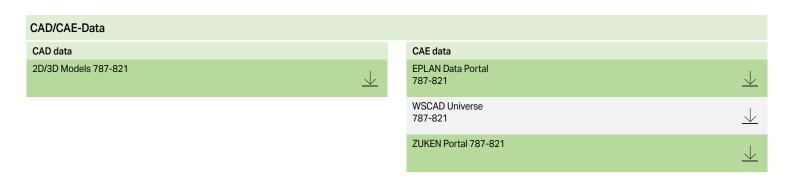
Approval Standard Certificate Name

EU-Declaration of Conformity

WAGO GmbH & Co. KG



Documentation						
Bid Text				Instruction Leaflet		
787-821	04.07.2019	docx 20.39 KB	<u>↓</u>	Primär getaktete Stromversorgungen PRO	pdf 247.20 KB	<u>↓</u>
787-821	04.07.2019	xml 7.53 KB	<u>↓</u>			



Engineering-Software			
Configuration and Commissioning Software			
WAGO Line Length Calculation	1.3.5 09.12.2019	exe 329.50 KB	<u>↓</u>

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1 Compatible Products

1.1 Optional Accessories

1.1.1 Marking

1.1.1.1 Marking strip

Item No.: 2009-110

Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white Item No.: 210-831

Marking strips; on reel; 2.3 mm wide; plain; Self-adhesive; white

Item No.: 210-832

Marking strips; on reel; 3 mm wide; plain; Self-adhesive; white

1.1.2 Mounting adapter

1.1.2.1 DIN-rail adapter



Item No.: 787-897

Carrier rail adapter made of zinc die-cast; for mounting 787-8xx devices to a DIN 35 rail

Item No.: 787-896

Carrier rail adapter; for mounting 787-8xx devices to a DIN 35 rail

1.1.2.2 Wall-mount adapter



Mounting carrier; for screw fixing of 787-8xx devices on mounting plate or wall without DIN 35 rail

1.1.3 Tool

1.1.3.1 Operating tool

Item No.: 210-719

Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft

Item No.: 210-720

Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured

Item No.: 210-769

SCREWDRIVER; green

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

Current addresses can be found at:: www.wago.com