



- 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		Output	
Phases	1	Nominal output voltage $U_{o\,nom}$	12 VDC (SELV)
Nominal input voltage $U_{i\,nom}$	1 x 100 ... 240 VAC	Output voltage range	11 ... 18 VDC (adjustable)
Input voltage range	1 x 85 ... 264 VAC; 120 ... 300 VDC	Default Setting	DC 12 V
Input voltage derating	-5 %/V (< 95 VAC)	Nominal output current $I_{o\,nom}$	10 A (12 VDC)
Nominal mains frequency range	50 ... 60 Hz; 0 Hz	Nominal output power	120 W
Input current I_i	≤ 0.97 A (240 VAC; 10 ADC)	Deviation	≤ 1 %
Discharge current	≤ 1 mA	Residual ripple	≤ 70 mV (peak-to-peak)
Inrush current	≤ 30 A (peak)	Current limitation	1.1 x $I_{o\,nom}$ (typ.)
Power factor correction (PFC)	Passive	Overload behavior	TopBoost/PowerBoost/Constant current mode
Mains failure hold-up time	≥ 35 ms (230 VAC)	PowerBoost	DC 20 A (4 s); DC 15 A (8 s)
		TopBoost	60 ADC (25 ms); 40 ADC (25 ms; U_i)

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_i	≤ 0.5 W (standby); ≤ 5 W (no load); ≤ 14.6 W (nominal load)
Efficiency (typ.)	87.8 %



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 (pri.-sec.)	DC 4.242 kV
Isolation voltage (pri.-PE)	DC 2.2 kV
Isolation voltage (sec.-PE)	0.7 kVDC
Protection class	I
Protection type	IP20; per EN 60529
Resistance to reverse feed	≤ 25 VDC
Overvoltage category	II
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



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)
Derating	-3 %/K (> 50 °C)
Climatic category	3K3 (per EN 60721)

Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61010-1 EN 61010-2-201 EN 61204-3 EN 61558-2-16 UL 60950 UL 508

Commercial data	
Product Group	6 (INTERFACE ELECTRONIC)
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		
  		
Approval	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 Underwriters Laboratories Inc.	UL 508	E255817

General approvals		
UR Underwriters Laboratories Inc.	UL 60950-1	E255815



Declarations of conformity and manufacturer's declarations

Approval	Standard	Certificate Name
EU-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product
Compliance 787-821

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Documentation

Bid Text

787-821

04.07.2019

docx
20.39 KB

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787-821

04.07.2019

xml
7.53 KB

↓

Instruction Leaflet

Primär getaktete
Stromversorgungen
PRO

pdf
247.20 KB

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CAD/CAE-Data

CAD data

2D/3D Models 787-821

↓

CAE data

EPLAN Data Portal
787-821

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WSCAD Universe
787-821

↓

ZUKEN Portal 787-821

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Engineering-Software

Configuration and Commissioning Software

WAGO Line Length Cal-
culation

1.3.5
09.12.2019

exe
329.50 KB

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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



Item No.: 787-895
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