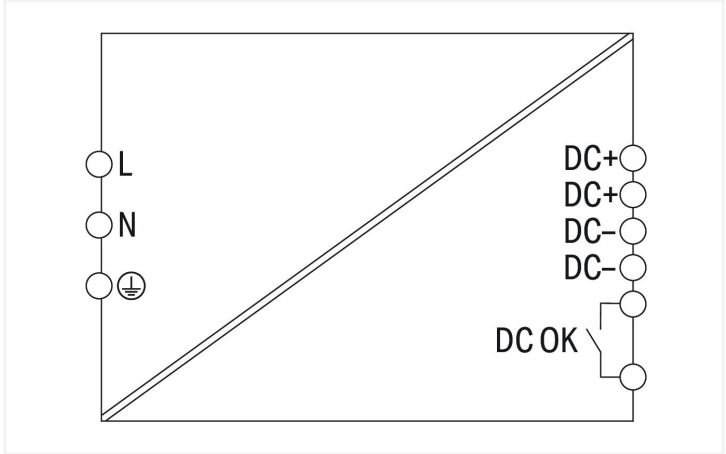




- Features:**
- Switched-mode power supply
 - Natural convection cooling when horizontally mounted
 - Encapsulated for use in control cabinets
 - DC OK contact
 - Suitable for both parallel and series operation
 - Electrically isolated output voltage (SELV) per UL 60950-1; PELV per EN 60204
 - DNV approval

Technical data			
Input		Output	
Phases	1	Nominal output voltage $U_{o\ nom}$	48 VDC (SELV)
Nominal input voltage $U_{i\ nom}$	1 x 100 ... 240 VAC	Output voltage range	40 ... 56 VDC (adjustable)
Input voltage range	1 x 85 ... 264 VAC; 120 ... 300 VDC	Default Setting	DC 48 V
Input voltage derating	-2.5 %/V (< 100 VAC)	Nominal output current $I_{o\ nom}$	10 A (48 VDC)
Nominal mains frequency range	44 ... 66 Hz; 0 Hz	Nominal output power	480 W
Input current I_i	≤ 2.23 A (230 VAC); ≤ 5.56 A (100 VAC)	Deviation	≤ 1 %
Discharge current	≤ 1 mA	Residual ripple	≤ 80 mV (peak-to-peak)
Inrush current	≤ 30 A	Current limitation	1.1 x $I_{o\ nom}$ (typ.)
Power factor correction (PFC)	Active	Overload behavior	Constant current
Mains failure hold-up time	≥ 20 ms (230 VAC); ≥ 20 ms (100 VAC)	TopBoost	See instruction leaflet

Signaling and communication		Efficiency/power losses	
Signaling	1 x LED DC OK (green) 1 x DC OK contact (make contact; max. 30 VAC/DC; 1 A)	Power loss P_i	≤ 11.7 W; ≤ 36.3 W (230 VAC; nominal load)
Operation status indicator	Green LED (U_o)	Power loss (max.) $P_{i\ (max.)}$	64.9 W (100 VAC / 48 VDC; 10 A)
		Efficiency (typ.)	93 %

Circuit protection	
Internal fuse	T 10 A / 250 VAC
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	Circuit breaker: 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		≤ 63 VDC
Overvoltage category		II
Pollution degree		2
Transient suppression (primary)		Varistor
Overvoltage protection; secondary		Internal protective circuit ≤ 60 VDC (in the event of a fault)
Short-circuit-protected		Yes
Open-circuit-proof		Yes
Parallel operation		Yes
Series operation		Yes
MTBF		> 500,000 h (per IEC 61709)

Connection data		
Connection type 1		Input/signaling
Connection technology		CAGE CLAMP® Push-in CAGE CLAMP®
WAGO connector		WAGO 721 Series
Solid conductor		0.08 ... 2.5 mm² / 28 ... 12 AWG 0.5 ... 10 mm² / 20 ... 8 AWG
Fine-stranded conductor		0.08 ... 2.5 mm² / 28 ... 12 AWG 0.5 ... 10 mm² / 20 ... 8 AWG
Strip length		8 ... 9 mm / 0.31 ... 0.35 inches 13 ... 15 mm / 0.51 ... 0.59 inches
Connection type		Output
WAGO connector 2		WAGO 831 Series

Physical data		
Width		95 mm / 3.74 inches
Height		127 mm / 5 inches
Depth from upper-edge of DIN-rail		170 mm / 6.693 inches

Mechanical data		
Mounting type		DIN-35 rail

Material data		
Fire load		0 MJ
Weight		1600 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	-5 %/K (> 60 °C, 196 ... 264 VAC); -2.5 %/K (> 50 °C, 85 ... 195 VAC)
Climatic category	3K3 (per EN 60721)

Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61010-1 EN 61010-2-201 EN 61204-3 UL 60950-1 UL 508 DNV SEMI F47

Commercial data	
Product Group	6 (INTERFACE ELECTRONIC)
eCl@ss 10.0	27-04-07-01
eCl@ss 9.0	27-04-07-01
ETIM 9.0	EC002540
ETIM 8.0	EC002540
PU (SPU)	1 pcs
Packaging type	Box
Country of origin	DE
GTIN	4055143060547
Customs tariff number	85044083900

Environmental Product Compliance	
RoHS Compliance Status	Compliant, No Exemption

Approvals / Certificates		
General approvals		Declarations of conformity and manufacturer's declarations
  		
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
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	-	-
MFD for SEMI F47 WAGO GmbH & Co. KG	-	-



Approvals for marine applications



Approval	Standard	Certificate Name
DNV DNV Germany GmbH	DNVGL-CG-339,Dec.2019	TAA00002YC

Downloads

Environmental Product Compliance

Compliance Search
Environmental Product Compliance 787-1635

Documentation

Bid Text
787-1635
04.07.2019
xml 7.17 KB
↓
787-1635
04.06.2019
docx 21.27 KB
↓

Instruction Leaflet
Primär getaktete Stromversorgungen CLASSIC
pdf 244.90 KB
↓

CAD/CAE-Data

CAD data
2D/3D Models 787-1635
↓

CAE data
EPLAN Data Portal 787-1635
↓
WSCAD Universe 787-1635
↓
ZUKEN Portal 787-1635
↓

Engineering-Software

Configuration and Commissioning Software
WAGO Line Length Cal- culation
1.3.5 09.12.2019
exe 329.50 KB
↓

1 Compatible Products

1.1 Optional Accessories

1.1.1 Marking

1.1.1.1 Marker



Item No.: 2009-145
Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white



Item No.: 248-501
Mini-WSB marking card; as card; not stretchable; plain; snap-on type; white



Item No.: 793-5501
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; white



Item No.: 793-501
WMB marking card; as card; not stretchable; plain; snap-on type; white



Item No.: 2009-115
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white

1.1.1.2 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.: 787-897/000-010
Carrier rail adapter made of zinc die-cast; horizontal mounting of 787-16xx (TS35)

1.1.3 Tool

1.1.3.1 Operating tool



Item No.: 210-720
Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured



Item No.: 210-721
Operating tool; Blade: 5.5 x 0.8 mm; with a partially insulated shaft; multicoloured



Item No.: 210-769
SCREWDRIVER; green