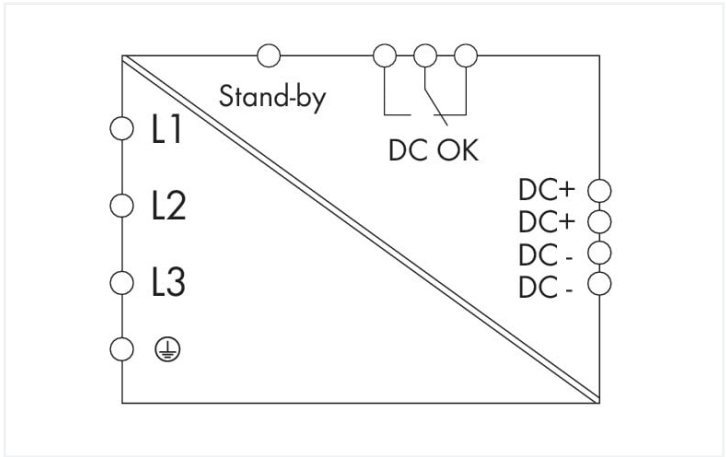




- Features:**
- Switched-mode power supply with PowerBoost and TopBoost
 - Switch off the output and minimize power consumption via stand-by input
 - Output monitoring via DC OK contact
 - Suitable for both parallel and series operation
 - Natural convection cooling when horizontally mounted
 - Encapsulated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

Technical data			
Input		Output	
Phases	2 / 3	Nominal output voltage $U_{o\ nom}$	DC 48 V (SELV)
Nominal input voltage $U_{i\ nom}$	(2 / 3) x AC 400 ... 500 V	Output voltage range	DC 39 ... 53 V (adjustable)
Input voltage range	(2 / 3) x AC 340 ... 550 V; DC 480 ... 780 V	Default setting	DC 48 V
Nominal mains frequency range	50 ... 60 Hz; 0 Hz	Nominal output current $I_{o\ nom}$	10 A (48 VDC)
Input current I_i	$\leq 3 \times 1.1$ A (340 VAC; 10 ADC)	Nominal output power	480 W
Discharge current	≤ 1 mA	Deviation	≤ 1 %
Inrush current	≤ 30 A (peak)	Residual ripple	≤ 70 mV (peak-to-peak)
Power factor correction (PFC)	Passive	Current limitation	$1.1 \times I_{o\ nom}$ (typ.)
Mains failure hold-up time	≥ 12 ms (3 x 400 VAC)	Overload behavior	TopBoost/PowerBoost/Constant current mode
		PowerBoost	DC 15 A (4 s); DC 12.5 A (16 s)
		TopBoost	DC 55 A (50 ms)

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	≤ 0.8 W (standby); ≤ 8.2 W (No load); ≤ 38 W (nominal load)
Efficiency (typ.)	93 %



Circuit protection	
Internal fuse	3 x T 2.5 A / 440 VAC
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	3 x Circuit breaker: 6 A, 10 A, 16 A; Trip-ping characteristic: B or C Alternative: motor circuit breaker; Set-point: 2.5 A; Setting range: 2.5 ... 4 A

Safety and protection	
Isolation voltage (pri.-sec.)	DC 4.242 kV
Isolation voltage (pri.-PE)	DC 2.2 kV
Isolation voltage (sec.-PE)	DC 0.7 kV
Protection class	I
Protection type	IP20; per EN 60529
Resistance to reverse feed	≤ DC 63 V
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 type 1	Input
Connection technology	CAGE CLAMP®
WAGO connector	WAGO 231 Series
Solid conductor	0.08 ... 2.5 mm² / 28 ... 12 AWG
Fine-stranded conductor	0.08 ... 2.5 mm² / 28 ... 12 AWG
Strip length	8 ... 9 mm / 0.31 ... 0.35 inches
Connection type 2	Output
Connection technology 2	Push-in CAGE CLAMP®
WAGO connector 2	WAGO 831 Series
Solid conductor 2	0.5 ... 10 mm² / 20 ... 8 AWG
Fine-stranded conductor 2	0.5 ... 10 mm² / 20 ... 8 AWG
Strip length 2	13 ... 15 mm / 0.51 ... 0.59 inches
Connection type 3	Signaling
Connection technology 3	CAGE CLAMP®
WAGO connector 3	WAGO 733 Series
Solid conductor 3	0.08 ... 0.5 mm² / 28 ... 20 AWG
Fine-stranded conductor 3	0.08 ... 0.5 mm² / 28 ... 20 AWG
Strip length 3	5 ... 6 mm / 0.2 ... 0.24 inches



Physical data	
Width	77 mm / 3.031 inches
Height	171 mm / 6.732 inches
Depth from upper-edge of DIN-rail	179 mm / 7.047 inches
Note (dimensions)	Height with connector

Mechanical data	
Mounting type	DIN-35 rail

Material data	
Fire load	0 MJ
Weight	1883.3 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)
eCl@ss 10.0	27-04-07-01
eCl@ss 9.0	27-04-07-01
ETIM 8.0	EC002540
ETIM 7.0	EC002540
PU (SPU)	1 pcs
Packaging type	Box
Country of origin	DE
GTIN	4050821226437
Customs tariff number	85044083900

Environmental Product Compliance	
RoHS Compliance Status	Compliant, No Exemption



Approvals / Certificates

General approvals



Approval	Standard	Certificate Name
EAC Brjansker Zertifizierungs- stelle	TP TC 004/2011,TP TC 020/2011	EAC RU C-DE.AM02. B.00089_19
UL Underwriters Laboratories Inc.	UL 508	E255817
UL 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 787-845



Documentation

Bid Text			
787-845	04.07.2019	xml 7.63 KB	
787-845	04.07.2019	docx 20.94 KB	

Instruction Leaflet			
Primär getaktete Stromversorgungen PRO		pdf 359.24 KB	

CAD/CAE-Data

CAD data
2D/3D Models 787-845



CAE data	
EPLAN Data Portal 787-845	
WSCAD Universe 787-845	
ZUKEN Portal 787-845	

Engineering-Software			
Configuration and Commissioning Software			
WAGO Line Length Calculation	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
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.: 210-721](#)
Operating tool; Blade: 5.5 x 0.8 mm; with a partially insulated shaft; multicoloured



[Item No.: 210-769](#)
SCREWDRIVER; green