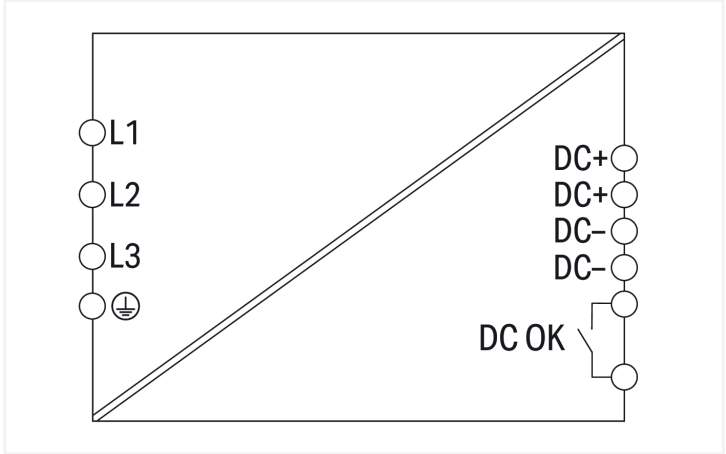




Features:

- Switched-mode power supply with TopBoost, enabling secondary-side protection via circuit breakers
- 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

Technical data

Input		Output	
Phases	2 / 3	Nominal output voltage $U_{o\ nom}$	24 VDC (SELV)
Nominal input voltage $U_{i\ nom}$	(2 / 3) x 400 ... 500 VAC	Output voltage range	23 ... 28.5 VDC (adjustable)
Input voltage range	(2 / 3) x 320 ... 575 VAC; 450 ... 800 VDC	Default Setting	DC 24 V
Nominal mains frequency range	47 ... 63 Hz; 0 Hz	Nominal output current $I_{o\ nom}$	10 A (24 VDC)
Input current I_i	$\leq 3 \times 0.73\ A\ (400\ VAC); \leq 3 \times 0.66\ A\ (500\ VAC)$	Nominal output power	240 W
Discharge current	$\leq 1\ mA$	Deviation	$\leq 1\ \%$
Inrush current	$\leq 30\ A\ (NTC)$	Residual ripple	$\leq 50\ mV\ (peak-to-peak)$
Power factor correction (PFC)	Passive	Current limitation	$1.1 \times I_{o\ nom}\ (typ.)$
Mains failure hold-up time	$\geq 50\ ms\ (500\ VAC); \geq 21\ ms\ (400\ VAC)$	Overload behavior	Constant current

Signaling and communication	
Signaling	1 x LED DC OK (green) 1 x DC OK contact (make contact; max. 30 VAC/DC; 1 A)

Operation status indicator	Green LED (U_o)
----------------------------	---------------------

Efficiency/power losses	
Power loss P_I	$\leq 2.1\ W; \leq 27.9\ W\ (400\ VAC; nominal\ load)$
Power loss (max.) $P_{I\ (max.)}$	28.3 W (500 VAC / 24 VDC; 10 A)
Efficiency (typ.)	90 %

Circuit protection	
Internal fuse	No
Backup fusing (required)	3 x Circuit breaker: 6 A, 10 A, 16 A; Tripping characteristic: B or C, 20 A (max.) Alternative: motor circuit breaker An external DC fuse is required for the DC input voltage.



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	≤ 35 VDC	
Overvoltage category	II	
Pollution degree	2	
Transient suppression (primary)	Varistor	
Overvoltage protection; secondary	Internal protective circuit ≤ 41 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 1		
Connection type 1	Input/output/signaling	
Connection technology	CAGE CLAMP®	
WAGO connector	WAGO 721 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	

Physical data		
Width	55 mm / 2.165 inches	
Height	127 mm / 5 inches	
Depth from upper-edge of DIN-rail	171 mm / 6.732 inches	

Mechanical data		
Mounting type	DIN-35 rail	

Material data		
Fire load	0.579 MJ	
Weight	1000 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	-2.5 %/K (> 55 °C)	



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	
PU (SPU)	1 pcs
Packaging type	Box
Country of origin	DE
GTIN	4055143259163
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			Declarations of conformity and manufacturer's declarations		
  			Approval	Standard	Certificate Name
EAC	TP TC 004/2011	EAC CoC 03078	EU-Declaration of Confor-	-	-
GZO Almaty Standart			mity		
			WAGO GmbH & Co. KG		
EAC	TP TC 020/2011	EAC CoC 03081	MFD for SEMI F47	-	-
GZO Almaty Standart			WAGO GmbH & Co. KG		
UL	UL 508	E255817			
Underwriters Laboratories Inc.					
UR	UL 60950-1	E255815			
Underwriters Laboratories Inc.					

Approvals for marine applications



Approval	Standard	Certificate Name
DNV DNV Germany GmbH	DNV-CG-0339,Aug.2021	TAA00000KT



Downloads

Environmental Product Compliance

Compliance Search			
Environmental Product Compliance 787-1640			

Documentation

Bid Text				Instruction Leaflet			
787-1640	04.07.2019	xml 7.21 KB		Primär getaktete Stromversorgungen CLASSIC	pdf 166.24 KB		
787-1640	13.06.2019	docx 21.39 KB					

CAD/CAE-Data

CAD data				CAE data			
2D/3D Models 787-1640				EPLAN Data Portal 787-1640			
				WSCAD Universe 787-1640			
				ZUKEN Portal 787-1640			

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.: 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.: 210-769
SCREWDRIVER; green