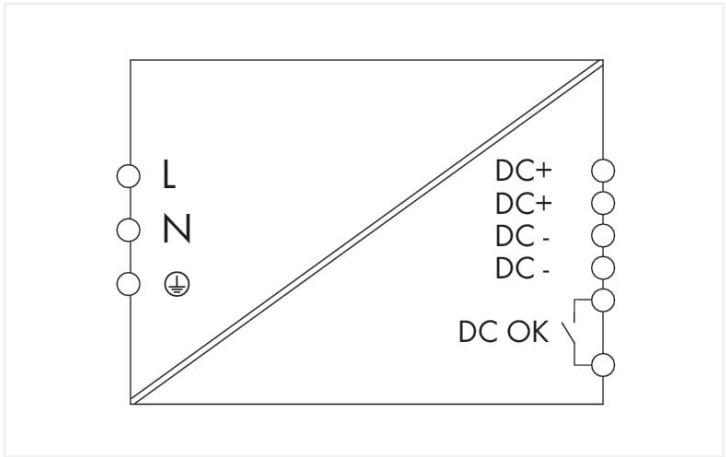




Similar to illustration

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
- Coated PCBs (with Bectron PL 1104 or Voltatex 2010), resistant to flowing mixed gas per ISA S71.04:1985, G3 Group A

Technical data			
Input		Output	
Phases	1	Nominal output voltage $U_{o\ nom}$	DC 24 V (SELV)
Nominal input voltage $U_{i\ nom}$	1 x AC 100 ... 240 V	Output voltage range	DC 23 ... 28.5 V (adjustable)
Input voltage range	1 x AC 85 ... 264 V; DC 120 ... 300 V	Default setting	DC 24 V
Input voltage derating	-1.8 %/V (< 105 VAC)	Nominal output current $I_{o\ nom}$	20 A (24 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	≤ 70 mV (peak-to-peak)
Inrush current	≤ 30 A	Current limitation	$1.1 \times I_{o\ nom}$ (typ.)
Power factor correction (PFC)	Active	Overload behavior	Constant current
Mains failure hold-up time	≥ 20 ms (230 VAC); ≥ 8 ms (100 VAC)		
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	≤ 7.2 W; ≤ 42.4 W (230 VAC; nominal load)
Operation status indicator	Green LED (U_o)	Power loss (max.) $P_{i\ (max.)}$	68.3 W (100 VAC / 24 VDC; 20 A)
		Efficiency (typ.)	92 %
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)	DC 0.7 kV	
Protection class	I	
Protection type	IP20; per EN 60529	
Resistance to reverse feed	≤ DC 35 V	
Overvoltage category	II	
Pollution degree	2	
Transient suppression (primary)	Varistor	
Overvoltage protection; secondary	Internal protective circuit ≤ 40 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®	
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	
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	

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	0.797 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

Commercial data	
ETIM 8.0	EC002540
ETIM 7.0	EC002540
PU (SPU)	1 pcs
Packaging type	Box
Country of origin	DE
GTIN	4055143786331
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
Approval	Standard	Certificate Name	EU-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-
EAC Brjansker Zertifizierungs- stelle	TP TC 004/2011,TP TC 020/2011	EAC RU C-DE.AM02. B.00089_19			

Downloads

Environmental Product Compliance	
Compliance Search	
Environmental Product Compliance 787-1634/000-070	



Documentation

Instruction Leaflet			
Primär getaktete Stromversorgung;	24.07.2017 04.03.2022	pdf 1622.10 KB	

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 Mounting adapter

1.1.1.1 DIN-rail adapter



[Item No.: 787-897/000-010](#)
Carrier rail adapter made of zinc die-cast;
horizontal mounting of 787-16xx (TS35)

1.1.2 Tool

1.1.2.1 Operating tool



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