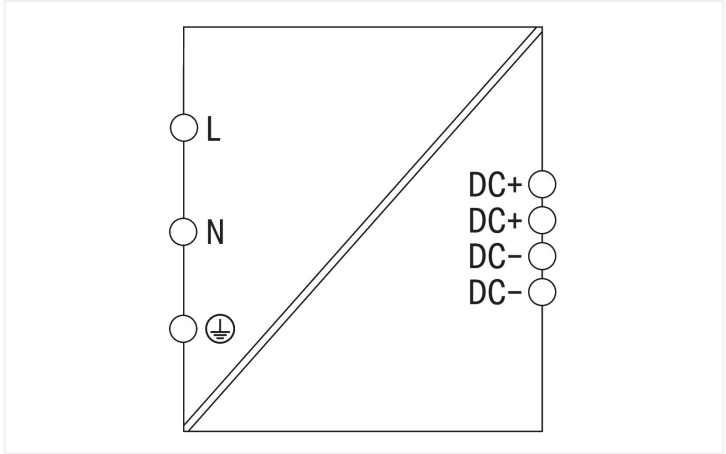




- Features:**
- Switched-mode power supply
 - Natural convection cooling when horizontally mounted
 - Encapsulated for use in control cabinets
 - Suitable for both parallel and series operation
 - Electrically isolated output voltage (SELV) per UL 60950-1; PELV per EN 60204

Technical data			
Input		Output	
Phases	1	Nominal output voltage $U_{o\,nom}$	24 VDC (SELV)
Nominal input voltage $U_{i\,nom}$	1 x 100 ... 240 VAC	Output voltage range	22 ... 28 VDC (adjustable)
Input voltage range	1 x 90 ... 264 VAC; 90 ... 373 VDC	Default Setting	DC 24 V
Nominal mains frequency range	47 ... 63 Hz; 0 Hz	Nominal output current $I_{o\,nom}$	2.5 A (24 VDC)
Input current I_i	≤ 0.7 A (230 VAC); ≤ 1.2 A (115 VAC)	Nominal output power	60 W
Discharge current	≤ 1 mA	Deviation	≤ 1 %
Inrush current	≤ 30 A	Residual ripple	≤ 100 mV (peak-to-peak)
Power factor	≥ 0.5 (230 VAC)	Overload behavior	Constant power (in overload range: 1.15 ... 1.4 x $I_{o\,nom}$); Shutdown and automatic restart in the event of a short circuit
Power factor correction (PFC)	Passive		
Mains failure hold-up time	≥ 20 ms (230 VAC)		

Signaling and communication		Efficiency/power losses	
Signaling	1 x LED DC OK (green) 1 x Overload LED (red)	Power loss P_I	≤ 8.3 W (230 VAC; nominal load)
Operation status indicator	Green LED (24 VDC OK) Red LED (overload)	Power loss (max.) $P_{I(max)}$	11.5 W (110 VAC / 24 VDC; 2.75 A)
		Efficiency (typ.)	86 % (230 VAC)

Circuit protection	
Internal fuse	F 2.5 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		≤ 28 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		480,000 h (per IEC 61709)

Connection data		
Connection type 1		Input/output
Connection technology		CAGE CLAMP®
WAGO connector		WAGO 745 Series
Solid conductor		0.08 ... 4 mm² / 28 ... 12 AWG
Fine-stranded conductor		0.08 ... 4 mm² / 28 ... 12 AWG
Strip length		8 ... 9 mm / 0.31 ... 0.35 inches
Note (conductor cross-section)		12 AWG: THHN, THWN

Physical data		
Width		50 mm / 1.969 inches
Height		92 mm / 3.622 inches
Depth from upper-edge of DIN-rail		136 mm / 5.354 inches

Mechanical data		
Mounting type		DIN-35 rail

Material data		
Fire load		4.4 MJ
Weight		470 g

Environmental requirements		
Ambient temperature (operation)		-10 ... +70 °C
Ambient temperature (storage)		-25 ... +85 °C
Relative humidity		≤ 95 % (no condensation permissible)
Derating		-3.3 %/K (> 50 °C; 230 VAC)
Climatic category		3K3 (per EN 60721)



Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 62368-1 EN 61204-3 cURus 60950-1 cULus 508 ANSI/ISA 12.12.01 (Class I Div. 2) ATEX IECEX SEMI F47 UL HazLoc

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	CN
GTIN	4045454908195
Customs tariff number	85044083900

Environmental Product Compliance	
RoHS Compliance Status	Compliant, No Exemption
SCIP notification number (Bulgaria)	a447b5ed-bfab-4354-ad87-91c72437e9ed
SCIP notification number (Czech Republic)	648038fe-6170-414c-8081-c02ad85c75d0

Approvals / Certificates		
General approvals		Declarations of conformity and manufacturer's declarations
		
Approval	Standard	Certificate Name
UL Underwriters Laboratories Inc.	UL 508	E255817
UR Underwriters Laboratories Inc.	UL 60950-1	E255815
Approval	Standard	Certificate Name
EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-
MFD for SEMI F47 WAGO GmbH & Co. KG	-	-
UK-Declaration of Conformity WAGO GmbH & Co. KG	-	-

Approvals for hazardous areas		
		
Approval	Standard	Certificate Name
UKEx WAGO GmbH & Co. KG	EN 60079-0	WAGO22UKEX001X_ec
UL UL International Germany GmbH (HAZARDOUS LOCATIONS)	ANSI/ISA 12.12.01	E198726 Section 5



Downloads	
Environmental Product Compliance	
Compliance Search	
Environmental Product Compliance 787-712	

Documentation			
Bid Text		Instruction Leaflet	
787-712	12.07.2019	xml 6.84 KB	
787-712	12.07.2019	docx 20.99 KB	
		CCC Ex (Additional information)	26.04.2023 pdf 127.27 KB
		Primary Switch Mode Power Supply ECO-Power	V 2.2.7 21.12.2020 pdf 336.60 KB

CAD/CAE-Data	
CAD data	CAE data
2D/3D Models 787-712 	EPLAN Data Portal 787-712
	WSCAD Universe 787-712
	ZUKEN Portal 787-712

1 Compatible Products
1.1 Optional Accessories
1.1.1 Tool
1.1.1.1 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
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