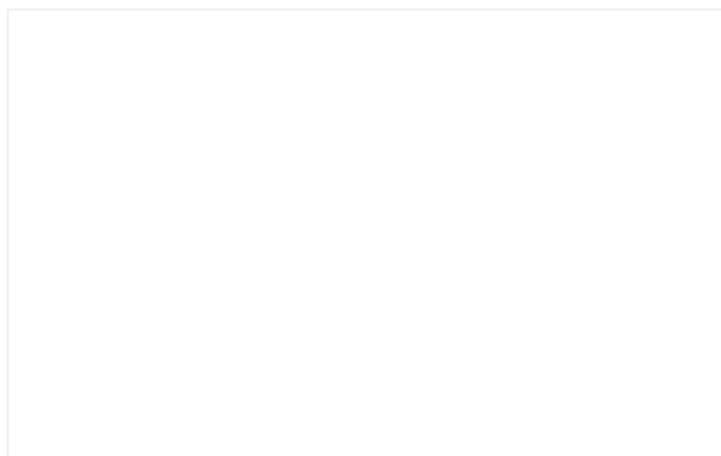
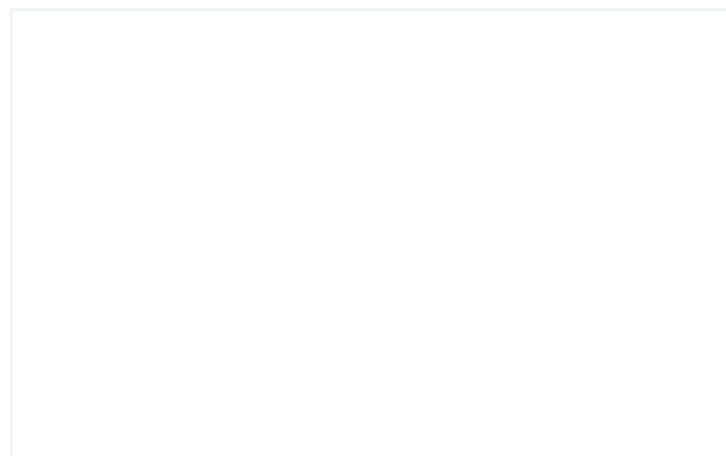


## Data Sheet | Item Number: 787-722

Power supply; Eco; 1-phase; 24 VDC output voltage; 5 A output current; DC-OK LED; 4,00 mm<sup>2</sup>

<https://www.wago.com/787-722>



### 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 $U_{o\text{nom}}$	DC 24 V (SELV)
Nominal input voltage $U_{i\text{nom}}$	1 x AC 110 ... 240 V	Output voltage range	DC 22 ... 28 V (adjustable)
Input voltage range	1 x AC 90 ... 264 V; DC 90 ... 373 V	Default setting	DC 24 V
Nominal mains frequency range	47 ... 63 Hz; 0 Hz	Nominal output current $I_{o\text{nom}}$	5 A (24 VDC)
Input current $I_i$	$\leq 1$ A (230 VAC); $\leq 2$ A (115 VAC)	Nominal output power	120 W
Discharge current	$\leq 3.5$ mA	Deviation	$\leq 1$ %
Inrush current	$\leq 30$ A	Residual ripple	$\leq 100$ mV (peak-to-peak)
Power factor	$\geq 0.94$ (230 VAC); $\geq 0.98$ (115 VAC)	Overload behavior	Constant power (in overload range: 1.15 ... 1.4 x $I_{o\text{nom}}$ ); Shutdown and automatic restart in the event of a short circuit
Power factor correction (PFC)	Active		
Mains failure hold-up time	$\geq 20$ ms (230 VAC)		

### Signaling and communication

Signaling	1 x LED DC OK (green) 1 x Overload LED (red)
Operation status indicator	Green LED (24 VDC OK) Red LED (overload)

### Efficiency/power losses

Power loss $P_I$	$\leq 19.5$ W (230 VAC; nominal load)
Power loss (max.) $P_{I(\text{max.})}$	23.5 W (110 VAC / 24 VDC; 5.5 A)
Efficiency (typ.)	86 % (230 VAC)

### Circuit protection

Internal fuse	F 3.15 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 28 V
Oversvoltage 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 mm <sup>2</sup> / 28 ... 12 AWG
Fine-stranded conductor	0.08 ... 4 mm <sup>2</sup> / 28 ... 12 AWG
Strip length	8 ... 9 mm / 0.31 ... 0.35 inches
Note (conductor cross-section)	12 AWG: THHN, THWN

### Physical data

Width	75 mm / 2.953 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
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### Material data

Fire load	4.8 MJ
Weight	850 g

### Environmental requirements

Ambient temperature (operation)	-10 ... +60 °C
Ambient temperature (storage)	-25 ... +85 °C
Relative humidity	≤ 95% (no condensation permissible)
Derating	-5.33%/K (> 45°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 8.0	EC002540
ETIM 7.0	EC002540
PU (SPU)	1 pcs
Packaging type	Box
Country of origin	CN
GTIN	4045454908188
Customs tariff number	85044083900

**Environmental Product Compliance**

RoHS Compliance Status	Compliant, No Exemption
SCIP notification number (Bulgaria)	c5cda720-be2e-42e5-9f2a-5ee3811607c4
SCIP notification number (Czech Republic)	36f49618-4b21-4699-af60-f1fc5941c014

**Approvals / Certificates**

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

**Approvals for hazardous areas**

Approval	Standard	Certificate Name
INMETRO TÜV Rheinland do Brasil Ltda.	IEC 60079	TÜV20.1339X
UKEx WAGO GmbH & Co. KG	EN 60079-0	WAGO22UKEX001X_ec nC T4
UL UL International Germany GmbH (HAZARDOUS LOCATIONS)	ANSI/ISA 12.12.01	E198726 Section 5

**Downloads**

**Environmental Product Compliance**

Compliance Search	
Environmental Product Compliance 787-722	<a href="#">↓</a>

**Documentation**

Bid Text			
787-722	12.07.2019	xml 6.85 KB	<a href="#">↓</a>
787-722	12.07.2019	docx 21.09 KB	<a href="#">↓</a>

Instruction Leaflet			
CCC Ex (Additional information)	26.04.2023	pdf 127.27 KB	<a href="#">↓</a>
Primary Switch Mode Power Supply ECO-Power	V 2.2.10 21.12.2020	pdf 229.55 KB	<a href="#">↓</a>

**CAD/CAE-Data**

CAD data	
2D/3D Models 787-722	<a href="#">↓</a>

CAE data	
EPLAN Data Portal 787-722	<a href="#">↓</a>
WSCAD Universe 787-722	<a href="#">↓</a>
ZUKEN Portal 787-722	<a href="#">↓</a>

**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