

Data sheet | Item number: 787-712

Power supply; Eco; 1-phase; 24 VDC output voltage; 2.5 A output current;
DC-OK LED; 4,00 mm²



www.wago.com/787-712



Item description

Features:

- Switched-mode power supply
- Natural convection cooling when horizontally mounted
- Encapsulated for use in control cabinets
- Suitable for both parallel and series operation

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Subject to changes. Please also observe the further product documentation!

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- Electrically isolated output voltage (SELV) per UL 60950-1; PELV per EN 60204

Data

Technical data

Input

Phases	1
Nominal input voltage $U_{i\text{nom}}$	1 x AC 100 ... 240 V 1 x AC 110 ... 240 V
Input voltage range	1 x AC 90 ... 264 V; DC 90 ... 373 V
Nominal mains frequency range	47 ... 63 Hz; 0 Hz
Input current I_i	≤ 0.7 A (230 VAC); ≤ 1.2 A (115 VAC)
Inrush current	≤ 30 A
Power factor	≥ 0.5 (230 VAC)
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 20 ms (230 VAC)

Output

Nominal output voltage $U_{o\text{nom}}$	DC 24 V (SELV)
Output voltage range	DC 22 ... 28 V (adjustable)
Default setting	DC 24 V
Nominal output current $I_{o\text{nom}}$	2.5 A (24 VDC)
Nominal output power	60 W
Deviation	≤ 1 %
Residual ripple	≤ 100 mV (peak-to-peak)
Overload behavior	Constant power (in overload range: $1.15 \dots 1.4 \times I_{o\text{nom}}$); Shutdown and automatic restart in the event of a short circuit

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)

Subject to changes. Please also observe the further product documentation!



Efficiency/power losses

Power loss P_I	≤ 8.3 W (230 VAC; Nominal load)
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 (sec.-PE)	DC 0.7 kV
Protection class	I
Protection type	IP20; per EN 60529
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 mm ² / 28 ... 12 AWG
Fine-stranded conductor	0.08 ... 4 mm ² / 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
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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	4.4 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 IEC Ex SEMI F47

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
Recupel Type	
PU (SPU)	1 pcs
Packaging type	box
Country of origin	CN

Subject to changes. Please also observe the further product documentation!



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**

Logo	Approval	Additional Approval Text	Certificate name
	UL Underwriters Laboratories Inc.	UL 508	E255817
	UL Underwriters Laboratories Inc.	UL 60950-1	E255815

Declarations of conformity and manufacturer's declarations

Logo	Approval	Additional Approval Text	Certificate name
	MFD with product reference WAGO GmbH & Co. KG	-	-

Approvals for hazardous areas

Logo	Approval	Additional Approval Text	Certificate name
	ATEX UL International Demko A/S	EN 60079-0	12 ATEX 0931267 X
	INMETRO TÜV Rheinland do Brasil Ltda.	IEC 60079	TÜV20.1339X
	UKEx WAGO GmbH & Co. KG	EN 60079-0	WAGO22UKEX001X_ec
	UL UL International Germany GmbH	IEC 60079-0	IECEx UL 10.0006 X
	UL UL International Germany GmbH (HAZARDOUS LOCATIONS)	ANSI/ISA 12.12.01	E198726 Section 5

Optional accessories**Tool**

Operating tool

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Item no.: 210-769
SCREWDRIVER; green

www.wago.com/210-769

Item no.: 210-720
Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured

www.wago.com/210-720

Downloads

Documentation

Bid Text

787-712 docx - Datei	2019 年7月12 日	docx 21.5 kB	Download
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787-712 X81 - Datei	2019 年7月12 日	xml 7.0 kB	Download
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Instruction Leaflet

CCC Ex (Additional information) 787-***	2023 年4月26 日	pdf 130.3 kB	Download
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Primary Switch Mode Power Supply ECO-Power 24 VDC, 2.5 A	V 2.2.7 2020 年12月21 日	pdf 344.7 kB	Download
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Additional Information

Disposal and Recycling Electrical and electronic equipment, Batteries, Packaging	V 1.1.0 2022 年8月18 日	pdf 2.2 MB	Download
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CAD/CAE-Data

CAE data

EPLAN Data Portal 787-712		URL	Download
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WSCAD Universe 787-712		URL	Download
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ZUKEN Portal 787-712		URL	Download
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CAD data

2D/3D Models 787-712		URL	Download
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Environmental Product Compliance

Compliance Search

Environmental Product Compliance 787-712

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LED; 4,00 mm²

Installation Notes

Product family

EPSITRON ECO Power

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