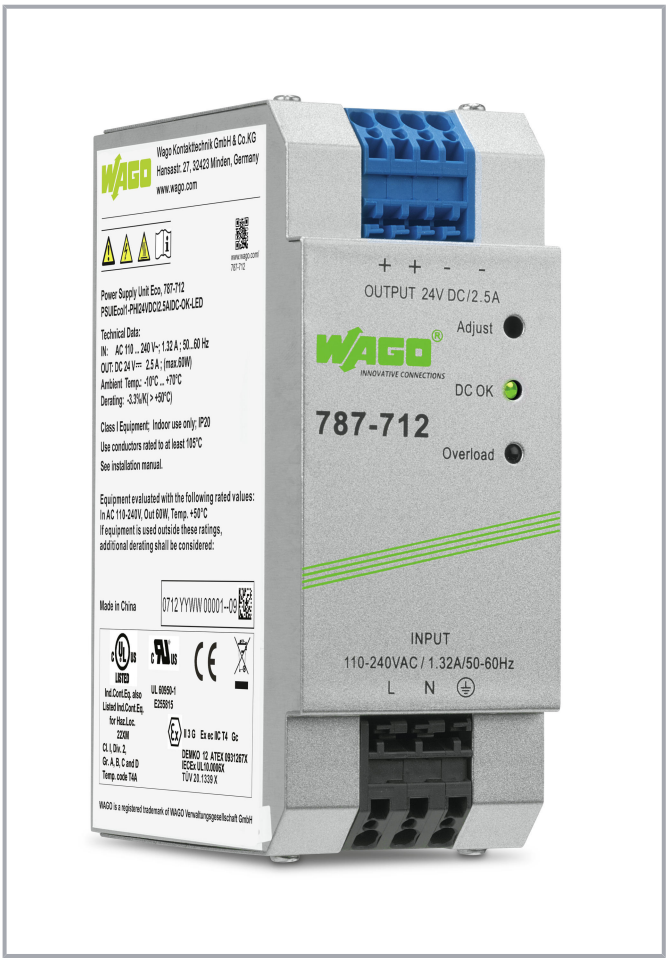
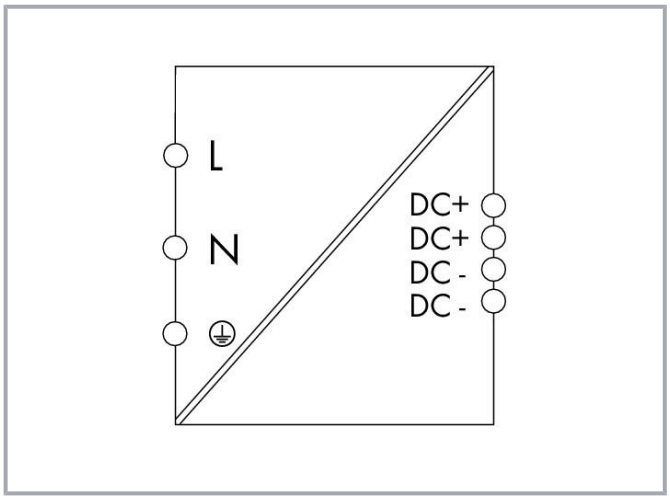
Data sheet | Item number: 787-712

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

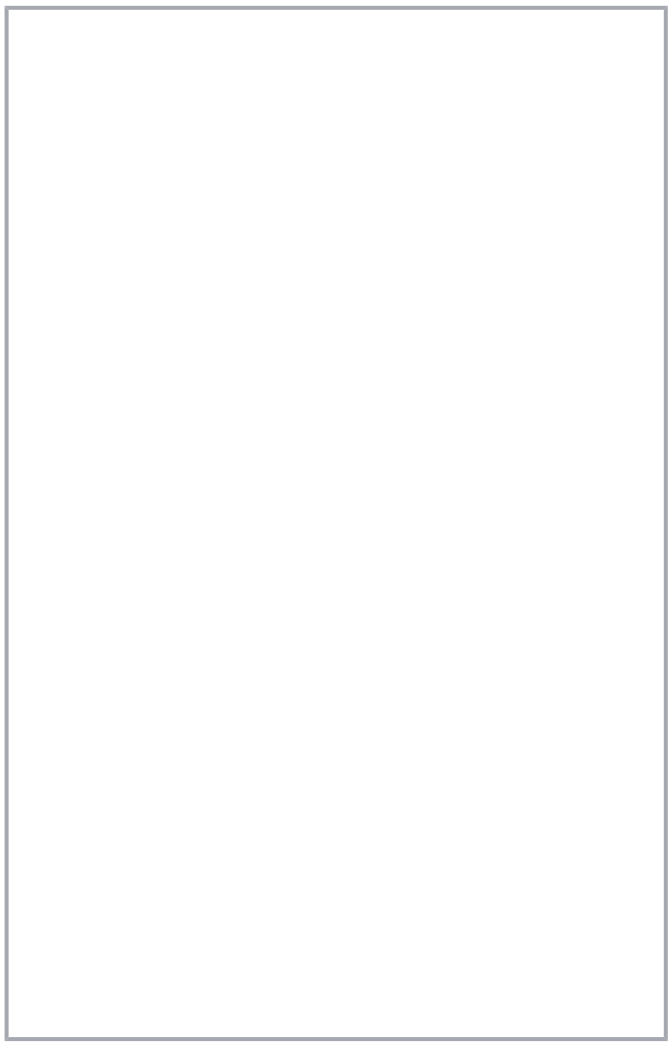




Subject to changes. Please also observe the further product documentation!

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

Data
Technical data

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Input

Phases	1
Nominal input voltage $U_{i\,nom}$	1 x AC 110 … 240 V
Input voltage range	1 x AC 85 … 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)
Discharge current	≤ 1 mA
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 $U_{o\,nom}$	DC 24 V (SELV)
Output voltage range	DC 22 … 28 V (adjustable)
Default setting	DC 24 V
Nominal output current $I_{o\,nom}$	2.5 A (24 VDC)
Nominal output power	60 W
Control deviation	≤ 1 %
Residual ripple	≤ 100 mV (peak-to-peak)
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

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_l	≤ 8.3 W (230 VAC; Nominal load)
Power loss (max.) $P_{l\,(max.)}$	11.5 W (110 VAC / 24 VDC; 2.75 A)
Efficiency (typ.)	86 % (230 VAC)

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Circuit protection

Internal fuse	F 2.5 A / 250 VAC
Required backup fusing	An external DC fuse is required for the DC input voltage.
Recommended backup fusing	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.-GND)	DC 2.2 kV
Isolation voltage (Sec.-GND)	DC 0.7 kV
Protection class	I
Protection type	IP20
Note on protection type	Per EN 60529
Resistance to reverse feed	≤ DC 28 V
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 inch
Note (conductor cross-section)	12 AWG: THHN, THWN

Physical data

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

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Mechanical data

Mounting type	DIN-35 rail

Material data

Fire load	4.4 MJ
Weight	470 g

Environmental requirements

Surrounding air temperature (operation)	-10 … +70 °C
Surrounding air temperature (storage)	-25 … +85 °C
Relative humidity	95% (no condensation permissible)
Derating	-3.3 %/K (> 50 °C; 230 VAC)

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

Commercial data

Product Group	6 (Interface Electronics)
PU (SPU)	1 Stück
Packaging type	box
Country of origin	CN
GTIN	4045454908195
Customs tariff number	85044082900

Approvals / Certificates

Ex-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	ATEX UL International Demko A/S	EN 60079-0	12 ATEX 0931267 X

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Ex nA IIC T4 Gc	**CCCEx** CQST/CNEx	CNCA-C23-01	2020312303000383 (Ex nA IIC T4 Gc)
	INMETRO TÜV Rheinland do Brasil Ltda.	IEC 60079	TÜV20.1339X
	UL UL International Germany GmbH (HAZARDOUS LOCATIONS)	ANSI/ISA 12.12.01	E198726 Section 5

UL-Approvals

Logo	Approval	Additional Approval Text	Certificate name
IECEx	**UL** UL International Germany GmbH	IEC 60079-0	IECEx UL 10.0006 X
c US	**UL** Underwriters Laboratories Inc.	UL 60950-1	E255815
	UL Underwriters Laboratories Inc.	UL 508	E255817

Optional accessories

Tool

Operating tool

	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

Ferrule

Ferrule

	Item no.: 216-223 Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; red	www.wago.com/216-223
	Item no.: 216-241 Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; white	www.wago.com/216-241

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	Item no.: 216-242 Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray	www.wago.com/216-242
	Item no.: 216-222 Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; gray	www.wago.com/216-222
	Item no.: 216-221 Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; white	www.wago.com/216-221
	Item no.: 216-224 Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; black	www.wago.com/216-224
	Item no.: 216-243 Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red	www.wago.com/216-243
	Item no.: 216-244 Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black	www.wago.com/216-244
	Item no.: 216-263 Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red	www.wago.com/216-263
	Item no.: 216-246 Ferrule; Sleeve for 2.5 mm² / AWG 14; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; blue	www.wago.com/216-246
	Item no.: 216-266 Ferrule; Sleeve for 2.5 mm² / AWG 14; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; blue	www.wago.com/216-266
	Item no.: 216-264 Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black	www.wago.com/216-264
	Item no.: 216-284 Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black	www.wago.com/216-284
	Item no.: 216-286 Ferrule; Sleeve for 2.5 mm² / AWG 14; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; blue	www.wago.com/216-286
	Item no.: 216-262 Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray	www.wago.com/216-262
	Item no.: 216-321 Ferrule; Sleeve for 0.25 mm² / AWG 24; insulated; electro-tin plated; yellow	www.wago.com/216-321
	Item no.: 216-322 Ferrule; Sleeve for 0.34 mm² / 22 AWG; insulated; electro-tin plated; light turquoise	www.wago.com/216-322

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Downloads

Documentation

Bid Text

787-712 docx - Datei	2019 Jul 12	docx 21.5 kB	Download
787-712 X81 - Datei	2019 Jul 12	xml 7.0 kB	Download

Instruction Leaflet

Primary Switch Mode Power Supply ECO-Power 24 VDC, 2.5 A	V 2.2.7 2020 Dec 21	pdf 344.7 kB	Download

Additional Information

Disposal; Electrical and electronic equipment, Packaging	V 1.0.0	pdf 265.8 kB	Download

CAD/CAE-Data

CAE data

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

CAD data

2D/3D Models 787-712	URL	Download

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 787-712 Power supply; Eco; 1-phase; 24 VDC output voltage; 2.5 A output current; DC-OK LED; 4,00 mm²	URL	Download

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Installation Notes

Product family

EPSITRON ECO Power
Show all products from the family

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