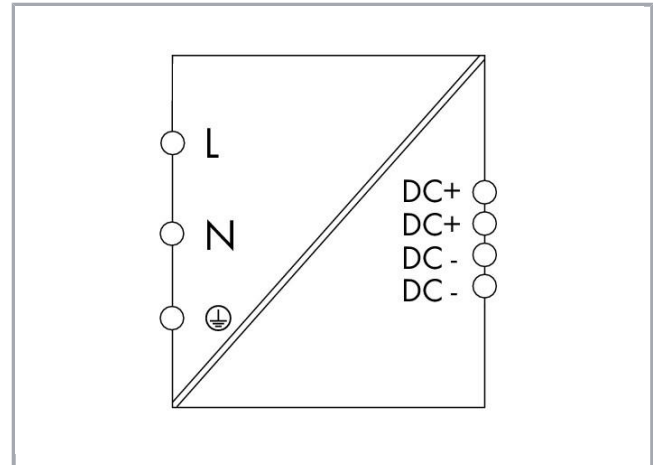
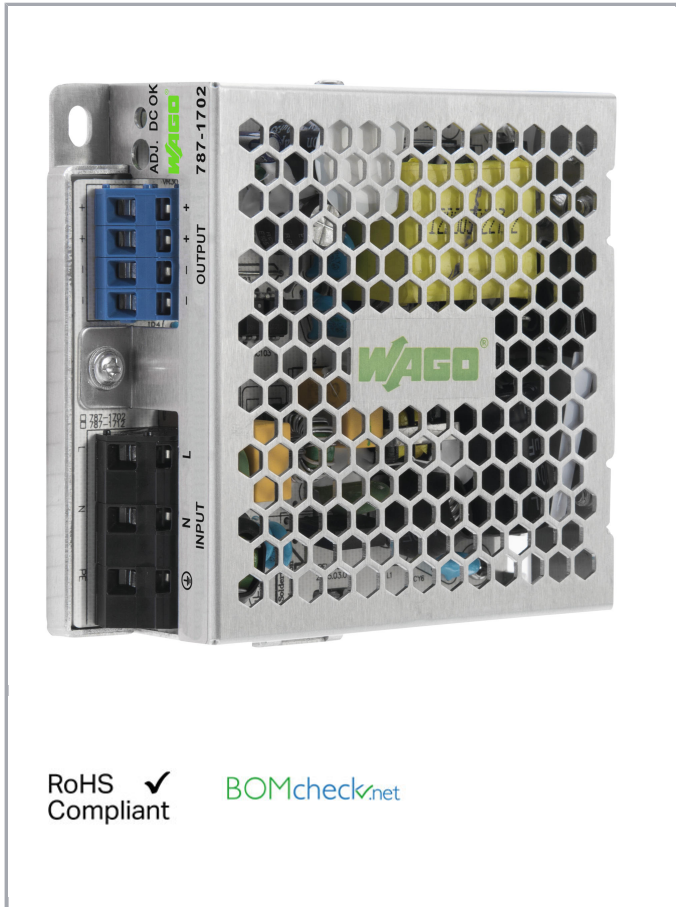


Data sheet | Item number: 787-1702

Switched-mode power supply; Eco; 1-phase; 24 VDC output voltage; 1.25 A output current; DC-OK LED

www.wago.com/787-1702



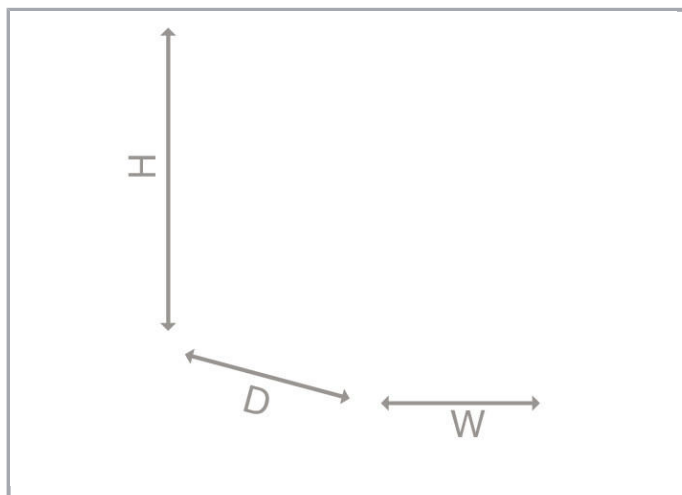
RoHS 
Compliant

[BOMcheck.net](https://www.bomcheck.net)

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 EN 60335-1 and UL 60950-1; PELV per EN 60204
- DIN-35 rail mountable in different positions
- Direct installation on mounting plate via cable grip

Data

Technical Data

Input

Phases	1
Nominal input voltage $U_{i\text{ nom}}$	AC 100 ... 240 V
Input voltage range	AC 90 ... 264 V; DC 125 ... 375 V
Nominal mains frequency range	47 ... 63 Hz; 0 Hz
Input current I_i	$\leq 0,3\text{ A}$ (230 VAC); $\leq 0,6\text{ A}$ (115 VAC)
Discharge current	$\leq 1,5\text{ mA}$
Inrush current	$\leq 18\text{ A}$
Power factor correction (PFC)	Passive
Mains failure hold-up time	$\geq 10\text{ ms}$ (230 VAC)

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Output

Nominal output voltage $U_{o\ nom}$	DC 24 V (SELV)
Output voltage range	DC 22 ... 26 V (adjustable)
Default setting	DC 24 V
Nominal output current $I_{o\ nom}$	1,25 A (24 VDC; 110 ... 240 VAC); 1 A (24 VDC; 100 ... 240 VAC)
Nominal output power	30 W
Control deviation	$\leq 1\ %$
Residual ripple	$\leq 200\ mV$ (peak-to-peak)
Overload behavior	Constant power (in overload range: $1.05 \dots 1.4 \times I_{o\ nom}$); Shutdown and automatic restart in the event of a short circuit

Signaling and communication

Signaling	1 x LED DC OK (green)
Operation status indicator	Green LED (U_o)

Efficiency/Power losses:

Efficiency (typ.)	87 % (230 VAC; 1.25 ADC)
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Fuse protection:

Internal fuse	F 1 A / 250 VAC
Required backup fusing	An external DC fuse is required for the DC input voltage.
Recommended backup fusing	Circuit breaker: B6, B10

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 (per EN 60529)
Resistance to reverse feed	$\leq$ DC 30 V
Overvoltage category	II
Transient suppression (primary)	Varistor
Short-circuit-protected	Yes
Open-circuit-proof	Yes
Parallel operation	Yes

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



Series operation	Yes, for 2 devices of the same type
MTBF	> 300,000 h (per IEC 61709)

Connection data

Connection type (1)	Input/Output
Connection technology	CAGE CLAMP®
WAGO Connector	WAGO 236 Series
Solid conductor	0,08 ... 2,5 mm² / 28 ... 12 AWG
Fine-stranded conductor	0,08 ... 2,5 mm² / 28 ... 12 AWG
Strip length	6 ... 7 mm / 0.24 ... 0.28 inch
Note (conductor cross-section)	12 AWG: THHN, THWN

Geometrical Data

Width	30 mm / 1.181 inch
Height	90 mm / 3.543 inch
Depth from upper edge of DIN-rail	99 mm / 3.898 inch

Mechanical data

Mounting type	DIN-35 rail (EN 60715) Screw mount
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Material Data

Weight	300 g
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Environmental Requirements

Surrounding air temperature (operation)	-20 ... 60 °C
Surrounding air temperature (storage)	-25 ... 75 °C
Relative humidity	10 ... 95 % (no condensation permissible)
Derating	-4 %/K (> 45 °C)
Pollution degree	2
Climatic category	3K3 (per EN 60721)

Standards and specifications

Conformity marking	CE
Standards/specifications	EN 61204-3; EN 60335-1; EN 62368-1; UL 60950-1; UL 508

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Commercial data

Packaging type	BOX
Country of origin	CN
GTIN	4055143372459
Customs tariff number	85044082900

Approvals / Certificates

UL-Approvals

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

Counterpart

Compatible products

tools

	Item no.: 210-720 Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft	www.wago.com/210-720
	Item no.: 210-769 SCREWDRIVER; green	www.wago.com/210-769

Marking accessories

	Item no.: 210-831 Marking strips; on reel; 2.3 mm wide; plain; Self-adhesive; white	www.wago.com/210-831
	Item no.: 210-832 Marking strips; on reel; 3 mm wide; plain; Self-adhesive; white	www.wago.com/210-832

ferrule

	Item no.: 216-201 Ferrule; Sleeve for 0.5 mm ² / 20 AWG; insulated; electro-tin plated; white	www.wago.com/216-201
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Subject to changes. Please also observe the further product documentation!

	Item no.: 216-202 Ferrule; Sleeve for 0.75 mm ² / 18 AWG; insulated; electro-tin plated; gray	www.wago.com/216-202
	Item no.: 216-203 Ferrule; Sleeve for 1 mm ² / AWG 18; insulated; electro-tin plated; red	www.wago.com/216-203
	Item no.: 216-204 Ferrule; Sleeve for 1.5 mm ² / AWG 16; insulated; electro-tin plated; black	www.wago.com/216-204
	Item no.: 216-221 Ferrule; Sleeve for 0.5 mm ² / 20 AWG; insulated; electro-tin plated; white	www.wago.com/216-221
	Item no.: 216-222 Ferrule; Sleeve for 0.75 mm ² / 18 AWG; insulated; electro-tin plated; gray	www.wago.com/216-222
	Item no.: 216-223 Ferrule; Sleeve for 1 mm ² / AWG 18; insulated; electro-tin plated; red	www.wago.com/216-223
	Item no.: 216-224 Ferrule; Sleeve for 1.5 mm ² / AWG 16; insulated; electro-tin plated; black	www.wago.com/216-224
	Item no.: 216-241 Ferrule; Sleeve for 0.5 mm ² / 20 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; white	www.wago.com/216-241
	Item no.: 216-242 Ferrule; Sleeve for 0.75 mm ² / 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.: 216-243 Ferrule; Sleeve for 1 mm ² / 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 mm ² / 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.: 216-262 Ferrule; Sleeve for 0.75 mm ² / 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.: 216-263 Ferrule; Sleeve for 1 mm ² / 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.: 216-264 Ferrule; Sleeve for 1.5 mm ² / 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 mm ² / 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.: 216-301 Ferrule; Sleeve for 0.25 mm ² / AWG 24; insulated; electro-tin plated; yellow	www.wago.com/216-301
	Item no.: 216-302 Ferrule; Sleeve for 0.34 mm ² / 22 AWG; insulated; electro-tin plated; green	www.wago.com/216-302

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



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; green

www.wago.com/216-322

Downloads

Documentation

Bid Text

787-1702 GAEB X81 - Datei	Oct 1, 2019	xml 7.0 kB	Download
787-1702 GAEB docx - Datei	Oct 1, 2019	docx 21.0 kB	Download

Instruction Leaflet

EPSITRON ECO Power Switched-Mode Power Supplies 24 VDC, 1.25 A	V 1.3	pdf 322.2 kB	Download
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CAD/CAE-Data

CAD data

2D/3D Models 787-1702	URL	Download
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CAE data

EPLAN Data Portal 787-1702	URL	Download
WSCAD Universe 787-1702	URL	Download

Installation Notes

Product family

Eco[Show all products from the family](#)

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