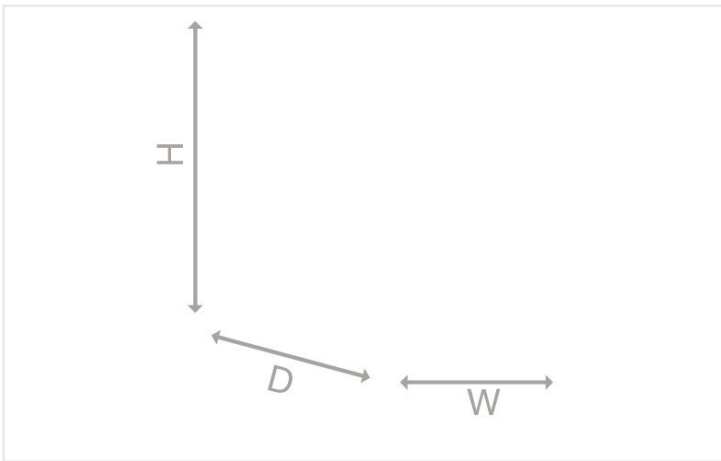
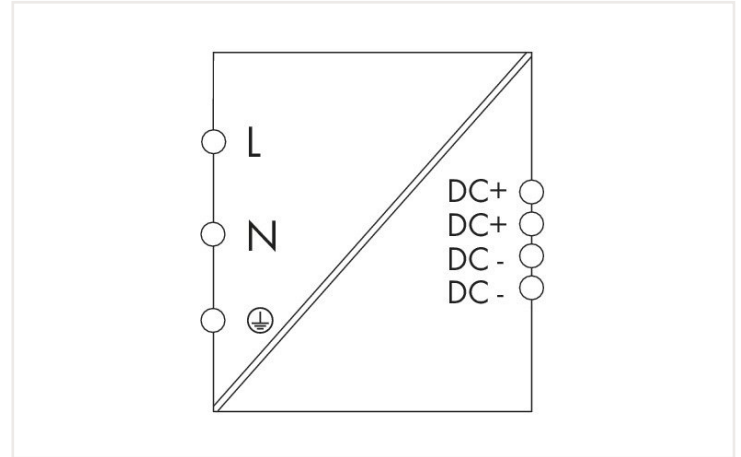


## Data sheet | Item number: 787-1702

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

<https://www.wago.com/787-1702>



### 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

### Technical data

Input		Output	
Phases	1	Nominal output voltage $U_{o, nom}$	DC 24 V (SELV)
Nominal input voltage $U_{i, nom}$	1 x AC 100 ... 240 V	Output voltage range	DC 22 ... 26 V (adjustable)
Input voltage range	1 x AC 90 ... 264 V; DC 125 ... 375 V	Default setting	DC 24 V
Nominal mains frequency range	47 ... 63 Hz; 0 Hz	Nominal output current $I_{o, nom}$	1.25 A (24 VDC; 110 ... 240 VAC); 1 A (24 VDC; 100 ... 240 VAC)
Input current $I_i$	$\leq 0.3$ A (230 VAC); $\leq 0.6$ A (115 VAC)	Nominal output power	30 W
Discharge current	$\leq 1.5$ mA	Deviation	$\leq 1$ %
Inrush current	$\leq 18$ A	Residual ripple	$\leq 200$ mV (Peak-to-peak)
Power factor correction (PFC)	passive	Overload behavior	Constant power (in overload range: 1.05 ... 1.4 x $I_{o, nom}$ ); Shutdown and automatic restart in the event of a short circuit
Mains failure hold-up time	$\geq 10$ ms (230 VAC)		

### Signaling and communication

Signaling	1 x LED DC OK (green)
Operation status indicator	Green LED (U <sub>o</sub> )

### Efficiency/power losses

Power loss P <sub>I</sub>	≤ 6 W (230 VAC; 24 VDC; 1.25 A)
Efficiency (typ.)	87 % (230 VAC; 1.25 ADC)

### Circuit protection

Internal fuse	F 1 A / 250 VAC
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	Circuit breaker: B6, B10

### 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 30 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, for 2 devices of the same type
MTBF	

### Connection data

Connection type 1	Input/output
Connection technology	CAGE CLAMP®
WAGO connector	WAGO 236 Series
Solid conductor	0.08 ... 2.5 mm <sup>2</sup> / 28 ... 12 AWG
Fine-stranded conductor	0.08 ... 2.5 mm <sup>2</sup> / 28 ... 12 AWG
Strip length	6 ... 7 mm / 0.24 ... 0.28 inches
Note (conductor cross-section)	12 AWG: THHN, THWN

### Physical data

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

### Mechanical data

Mounting type	DIN-35 rail Screw mount
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### Material data

Fire load	0.129 MJ
Weight	257 g

### Environmental requirements

Ambient temperature (operation at U <sub>N</sub> )	-20 ... 60 °C
Surrounding air temperature (storage)	-25 ... +75 °C
Relative humidity	10 ... 95 % (no condensation permissible)
Derating	-4 %/K (

### Standards and specifications

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

### Commercial data

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

### Approvals and certificates

#### General approvals



Approval	Standard	Certificate name
EAC Brjansker Zertifizierungs- stelle	TP TC 004/2011,TP TC 020/2011	EAC RU C-DE.AM02. B.00089_19
UL Underwriters Laboratories Inc.	UL 508	E255817
UL Underwriters Laboratories Inc.	UL 60950-1	E255815

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 787-1702



Documentation

Bid Text

787-1702	01.10.2019	xml 6.82 KB	
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787-1702	01.10.2019	docx 20.55 KB	
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787-1702

Instruction Leaflet

ECO Power Switched-Mode Power Supplies	V 1.5 21.12.2020	pdf 250.06 KB	
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CAD/CAE-Data

CAD data

2D/3D Models  
787-1702

CAE data

EPLAN Data Portal  
787-1702

WSCAD Universe  
787-1702

ZUKEN Portal  
787-1702

1 Compatible products

1.1 Optional accessories

1.1.1 Ferrule

1.1.1.1 Ferrule



[Item no.: 216-301](#)  
Ferrule; Sleeve for 0.25 mm<sup>2</sup> / AWG 24; insulated; electro-tin plated; yellow



[Item no.: 216-321](#)  
Ferrule; Sleeve for 0.25 mm<sup>2</sup> / AWG 24; insulated; electro-tin plated; yellow



[Item no.: 216-302](#)  
Ferrule; Sleeve for 0.34 mm<sup>2</sup> / 22 AWG; insulated; electro-tin plated; light turquoise



[Item no.: 216-322](#)  
Ferrule; Sleeve for 0.34 mm<sup>2</sup> / 22 AWG; insulated; electro-tin plated; light turquoise



[Item no.: 216-241](#)  
Ferrule; Sleeve for 0.5 mm<sup>2</sup> / 20 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; white



[Item no.: 216-201](#)  
Ferrule; Sleeve for 0.5 mm<sup>2</sup> / 20 AWG; insulated; electro-tin plated; white



[Item no.: 216-221](#)  
Ferrule; Sleeve for 0.5 mm<sup>2</sup> / 20 AWG; insulated; electro-tin plated; white



[Item no.: 216-242](#)  
Ferrule; Sleeve for 0.75 mm<sup>2</sup> / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray



[Item no.: 216-262](#)  
Ferrule; Sleeve for 0.75 mm<sup>2</sup> / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray



[Item no.: 216-202](#)  
Ferrule; Sleeve for 0.75 mm<sup>2</sup> / 18 AWG; insulated; electro-tin plated; gray



[Item no.: 216-222](#)  
Ferrule; Sleeve for 0.75 mm<sup>2</sup> / 18 AWG; insulated; electro-tin plated; gray



[Item no.: 216-243](#)  
Ferrule; Sleeve for 1 mm<sup>2</sup> / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red



[Item no.: 216-263](#)  
Ferrule; Sleeve for 1 mm<sup>2</sup> / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red



[Item no.: 216-203](#)  
Ferrule; Sleeve for 1 mm<sup>2</sup> / AWG 18; insulated; electro-tin plated; red



[Item no.: 216-223](#)  
Ferrule; Sleeve for 1 mm<sup>2</sup> / AWG 18; insulated; electro-tin plated; red



[Item no.: 216-204](#)  
Ferrule; Sleeve for 1.5 mm<sup>2</sup> / AWG 16; insulated; electro-tin plated; black

### 1.1.1.1 Ferrule



#### Item no.: 216-224

Ferrule; Sleeve for 1.5 mm<sup>2</sup> / AWG 16; insulated; electro-tin plated; black

#### Item no.: 216-244

Ferrule; Sleeve for 1.5 mm<sup>2</sup> / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black

#### Item no.: 216-264

Ferrule; Sleeve for 1.5 mm<sup>2</sup> / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black

#### Item no.: 216-284

Ferrule; Sleeve for 1.5 mm<sup>2</sup> / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black

### 1.1.2 Marking

#### 1.1.2.1 Marking strip



#### Item no.: 210-831

Marking strips; on reel; 2.3 mm wide; plain; Self-adhesive; white

#### Item no.: 210-832

Marking strips; on reel; 3 mm wide; plain; Self-adhesive; white

### 1.1.3 Tool

#### 1.1.3.1 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