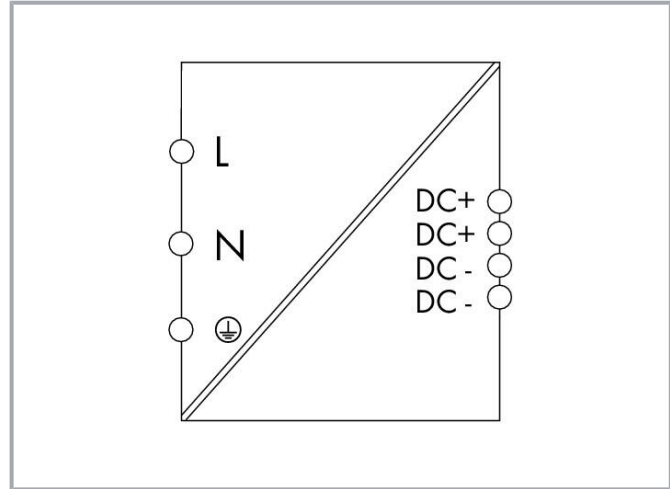


## Data sheet | Item number: 787-1702

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

[www.wago.com/787-1702](http://www.wago.com/787-1702)



## 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

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

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Do you have any questions about our products?  
We are always happy to take your call at +49 (571) 887-44222.

## Input

Phases	1
Nominal input voltage $U_{i\text{ nom}}$	1 x AC 100 ... 240 V
Input voltage range	1 x AC 90 ... 264 V; DC 125 ... 375 V
Nominal mains frequency range	47 ... 63 Hz; 0 Hz
Input current $I_i$	$\leq 0.3$ A (230 VAC); $\leq 0.6$ A (115 VAC)
Inrush current	$\leq 18$ A
Power factor correction (PFC)	Passive
Mains failure hold-up time	$\geq 10$ ms (230 VAC)

## Output

Nominal output voltage $U_{o\text{ nom}}$	DC 24 V (SELV)
Output voltage range	DC 22 ... 26 V (adjustable)
Nominal output current $I_{o\text{ nom}}$	1.25 A (24 VDC; 110 ... 240 VAC); 1 A (24 VDC; 100 ... 240 VAC)
Nominal output power	30 W
Residual ripple	$\leq 200$ mV (peak-to-peak)
Overload behavior	Constant power (in overload range: $1.05 \dots 1.4 \times I_{o\text{ nom}}$ ); Shutdown and automatic restart in the event of a short circuit

## Signaling and Communication

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

## Efficiency/power losses

Power loss $P_i$	$\leq 6$ 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

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



## 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, 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 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

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



## Environmental requirements

Ambient temperature (operation)	-20 ... +60 °C
Ambient temperature (storage)	-25 ... +75 °C
Relative humidity	10 ... 95 % (no condensation permissible)
Derating	-4 %/K (> 45 °C)

## Standards and specifications

Conformity marking	CE
Standards/specifications	EN 61204-3 EN 60335-1 EN 62368-1 UL 60950-1 UL 508 SEMI F47

## 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 pcs
Packaging type	box
Country of origin	CN
GTIN	4055143372459
Customs tariff number	85044083900

## Environmental Product Compliance

RoHS Compliance Status	Compliant, No Exemption
SCIP notification number (Bulgaria)	f8698786-e477-495b-941f-4f919d74e02a
SCIP notification number (Czech Republic)	99a56387-ebca-4ccd-ad92-657d3e95a071

## Approvals / Certificates

### General approvals

Logo	Approval	Additional Approval Text	Certificate name
	EAC Brjansker Zertifizierungsstelle	TP TC 004/2011, TP TC 020/2011	EAC RU C-DE.AM02. B.

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



UL  
Underwriters Laboratories Inc.

UL 60950-1

E255815




UL  
Underwriters Laboratories Inc.

UL 508

E255817



**Declarations of conformity and manufacturer's declarations**

Logo	Approval	Additional Approval Text	Certificate name
	EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-

**Optional accessories**



**Marking accessories**

Marking strip

	Item no.: 210-831 Marking strips; on reel; 2.3 mm wide; plain; Self-adhesive; white	<a href="http://www.wago.com/210-831">www.wago.com/210-831</a>
	Item no.: 210-832 Marking strips; on reel; 3 mm wide; plain; Self-adhesive; white	<a href="http://www.wago.com/210-832">www.wago.com/210-832</a>

**Tool**

Operating tool

	Item no.: 210-769 SCREWDRIVER; green	<a href="http://www.wago.com/210-769">www.wago.com/210-769</a>
	Item no.: 210-720 Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured	<a href="http://www.wago.com/210-720">www.wago.com/210-720</a>

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



## Downloads

### Documentation

#### Bid Text

787-1702 X81 - Datei	2019 Oct 1	xml 7.0 kB	Download
787-1702 docx - Datei	2019 Oct 1	docx 21.0 kB	Download
ausschreiben.de 787-1702		URL	Download

#### Instruction Leaflet

ECO Power Switched-Mode Power Supplies 24 VDC, 1.25 A	V 1.5 2020 Dec 21	pdf 256.1 kB	Download
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#### Additional Information

Disposal and Recycling Electrical and electronic equipment, Batteries, Packaging	V 1.1.0 2022 Aug 18	pdf 2.2 MB	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
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ZUKEN Portal 787-1702		URL	Download
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WSCAD Universe 787-1702		URL	Download
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## Environmental Product Compliance

### Compliance Search

Environmental Product Compliance 787-1702		URL	Download
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Subject to changes. Please also observe the further product documentation!



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

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## Installation Notes

## Product family

**EPSITRON ECO Power**

[Show all products from the family](#)

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

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