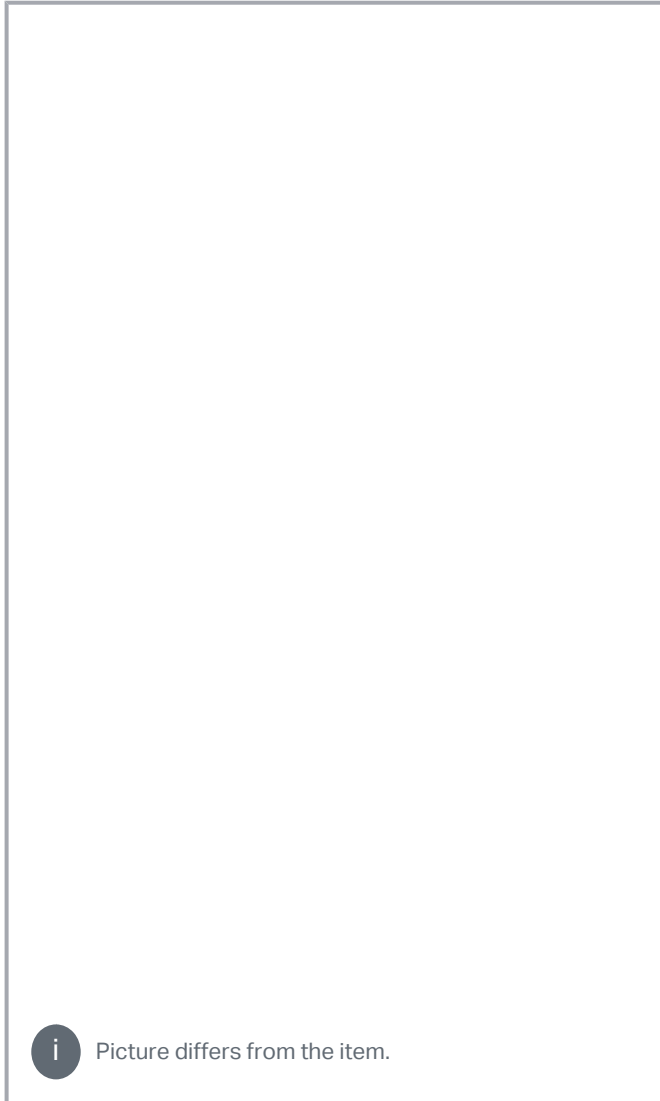


Data sheet | Item number: 787-1701

Switched-mode power supply; Eco; 1-phase; 12 VDC output voltage; 2 A output current; DC-OK LED

www.wago.com/787-1701



Item description

Features:

- Switched-mode power supply
- Natural convection cooling when horizontally mounted

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

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- Encapsulated for use in control cabinets
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per EN 60335-1; 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 $U_{i\text{nom}}$	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	≤ 0.7 A (100 VAC)
Inrush current	≤ 18 A
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 10 ms (230 VAC)

Output

Nominal output voltage $U_{o\text{nom}}$	DC 12 V (SELV)
Output voltage range	DC 10 ... 14 V (adjustable)
Default setting	DC 12 V
Nominal output current $I_{o\text{nom}}$	2 A (12 VDC; 110 ... 240 VAC); 1.6 A (12 VDC; 100 ... 240 VAC)
Nominal output power	24 W
Deviation	≤ 1 %
Residual ripple	≤ 150 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)

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



Efficiency/power losses

Power loss P_l	≤ 6 W (230 VAC; 12 VDC; 2 A)
Efficiency (typ.)	80 % (230 VAC; 2 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 (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 ² / 28 ... 12 AWG
Fine-stranded conductor	0.08 ... 2.5 mm ² / 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

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



Depth from upper-edge of DIN-rail	99 mm / 3.898 inches
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Mechanical Data

Mounting type	DIN-35 rail Screw mount
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Material Data

Fire load	0.129 MJ
Weight	250 g

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)
Climatic category	3K3 (per EN 60721)

Standards and specifications

Conformity marking	CE
Standards/specifications	EN 61204-3 EN 60335-1 EN 61558-2-6 EN 62368-1 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
Recupel Type	
PU (SPU)	1 pcs
Packaging type	box
Country of origin	CN
GTIN	4055143656023
Customs tariff number	85044083900

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



Environmental Product Compliance

RoHS Compliance Status	Compliant, No Exemption
SCIP notification number (Bulgaria)	4527369a-7479-4512-a4ab-cccc93eea45c
SCIP notification number (Czech Republic)	c046c5df-f40a-44e5-a226-6077f8efd221

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. 00089_19

Declarations of conformity and manufacturer's declarations

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

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

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Downloads

Documentation

Bid Text

787-1701 X81 - Datei	2019 年10月1日	xml 6.9 kB	Download
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787-1701 docx - Datei	2019 年10月1日	docx 20.6 kB	Download
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Instruction Leaflet

ECO Power Switched-Mode Power Supplies DC 12 V, 2 A	V 1.2 2020 年12月21日	pdf 255.9 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

CAD data

2D/3D Models 787-1701	URL	Download
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CAE data

EPLAN Data Portal 787-1701	URL	Download
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ZUKEN Portal 787-1701	URL	Download
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Environmental Product Compliance

Compliance Search

Environmental Product Compliance 787-1701 Switched-mode power supply; Eco; 1-phase; 12 VDC output voltage; 2 A output current; DC-OK LED	URL	Download
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Data sheet | Item number: 787-1701

www.wago.com/787-1701



Installation Notes

Product family

EPSITRON ECO Power

[Show all products from the family](#)

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