

Data sheet | Item number: 787-914

Switched-mode power supply; 1-phase; Output voltage: 22 VDC; 1 A output current



www.wago.com/787-914



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

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Item description

Features:

- Power supply for small loads that operate at a variable input voltage
- The output voltage can be adjusted linearly by hand or via an analog voltage signal (0 ... 10 V) in the range from 12 to 22 V, e.g., for automatically controlling fan speed in control cabinets.
- Flat design allows installation in confined spaces.
- Variable mounting options for space-saving installation, e.g., in recesses

Data

Technical data

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Input

Nominal input voltage $U_{i\text{nom}}$	AC 100 ... 240 V
Input voltage range	AC 90 ... 264 V; DC 130 ... 373 V
Nominal mains frequency range	47 ... 63 Hz; 0 Hz
Input current I_i	≤ 0.6 A
Inrush current	≤ 18 A
Power factor	≥ 0.45
Power factor correction (PFC)	Not required
Mains failure hold-up time	≥ 15 ms

Output

Nominal output voltage $U_{o\text{nom}}$	DC 22 V
Output voltage range	DC 12 ... 22 V (adjustable by hand or via signal input)
Default setting	DC 22 V
Nominal output current $I_{o\text{nom}}$	0.8 A (< 110 VAC); 1 A (110 ... 240 VAC)
Deviation	≤ 1 %
Deviation, dynamic load change 10 ... 90 %	≤ 1 %
Residual ripple	≤ 100 mV (peak-to-peak)
Overload behavior	Constant power (in overload range: $1.05 \dots 1.7 \times I_{o\text{nom}}$); Hiccup in the event of a short circuit or permanent overload

Signaling and Communication

Signaling	1 x Status indication LED (green) 1 x Signal input (10 VDC)
Operation status indicator	Green LED (U_o)
Input signal (voltage)	
Input impedance	10 k Ω

Efficiency/power losses

Power loss P_l	≤ 0.8 W
Power loss (max.) $P_{l(\text{max.})}$	4 W
Efficiency (typ.)	84 % (230 VAC); 80 % (110 VAC)

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Circuit protection

Internal fuse	1 A / 250 VAC
Backup fusing (recommended)	Circuit breaker: B6, C4 or higher

Safety and protection

Protection class	II
Protection type	IP20; per EN 60529
Reverse voltage protection	Yes (Signal input)
Pollution degree	2
Transient suppression (primary)	Varistor
Overvoltage protection; secondary	Yes (signal input) ≤ 31 VDC (output; in the event of a fault)
Short-circuit-protected	Yes
Open-circuit-proof	Yes
Parallel operation	Yes
Series operation	Yes
MTBF	> 500,000 h (at 25 °C per IEC 61709)

Connection data

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	5 ... 6 mm / 0.2 ... 0.24 inches

Physical data

Width	45 mm / 1.77 inches
Height	138 mm / 5.433 inches
Depth	35 mm / 1.38 inches
Note (dimensions)	Height: 156 mm (with fastening clips)

Mechanical Data

Mounting type	DIN-35 rail Screw mount
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Material Data

Fire load	0.093 MJ
Weight	160 g

Environmental requirements

Ambient temperature (operation)	-20 ... +60 °C
Ambient temperature (storage)	-25 ... +75 °C
Relative humidity	20 ... 90 % (no condensation permissible)
Derating	-2.47 %/K (> 45 °C)
Climatic category	3K3 (per EN 60721; except for low air pressure)

Standards and specifications

Conformity marking	CE
Standards/specifications	UL 60950 EN 61204-3 EN 62368-1 EN 61000-6-3

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	4055143576239
Customs tariff number	85044083900

Environmental Product Compliance

RoHS Compliance Status	Compliant, No Exemption
SCIP notification number (Bulgaria)	b40fb75b-54ae-491b-abc5-2faec600fd9a
SCIP notification number (Czech Republic)	7cf49fdf-4a9c-496f-a3a0-70f630107f63

Approvals / Certificates

General approvals

Certificate

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Logo	Approval	Additional Approval Text	name
	EAC Brjansker Zertifizierungsstelle	TP TC 004/2011,TP TC 020/2011	EAC RU C-DE.AM02.B.00089_19
	UL Underwriters Laboratories Inc.	UL 60950-1	E255815

Declarations of conformity and manufacturer's declarations

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

Downloads

Documentation

Bid Text

787-914 X81 - Datei	2019 年9月30 日	xml 8.1 kB	Download
787-914 docx - Datei	2019 年9月30 日	docx 23.4 kB	Download

Instruction Leaflet

Power Supply for Fan Control Fan Control Power	V 1.1.1 2019 年8月20 日	pdf 1.5 MB	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

CAE data

EPLAN Data Portal 787-914		URL	Download
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Compliance Search

Environmental Product Compliance 787-914

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Installation Notes

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