

## Data sheet | Item number: 787-1216

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

[www.wago.com/787-1216](http://www.wago.com/787-1216)



### Item description

#### Features:

- Switched-mode power supply
- Stepped profile for installation in standard distribution boards
- Screw mounts for alternative installation in distribution boxes or devices
- Pluggable *picoMAX*<sup>®</sup> Connection Technology (tool-free)

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

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- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per EN 60335-1 and UL 60950-1; PELV per EN 60204

## 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 85 ... 264 V; DC 125 ... 375 V
Input voltage derating	-2 %/V (< 100 VAC); -1.33 %/V (< 140 VDC)
Nominal mains frequency range	47 ... 63 Hz; 0 Hz
Input current $I_i$	$\leq 2.5$ A
Inrush current	$\leq 20$ A
Power factor	$\geq 0.5$
Power factor correction (PFC)	Passive
Mains failure hold-up time	$\geq 50$ ms

#### Output

Nominal output voltage $U_{o\text{ nom}}$	DC 24 V (SELV)
Output voltage range	DC 22 ... 26 V (adjustable)
Default setting	DC 24 V
Nominal output current $I_{o\text{ nom}}$	4.2 A; 3.3 A (< 110 VAC)
Nominal output power	100 W
Deviation	$\leq 1$ %
Deviation, dynamic load change 10 ... 90 %	$\leq 1$ %
Residual ripple	$\leq 100$ mV (peak-to-peak)
Overload behavior	Constant power (in overload range: $1.05 \dots 1.35 \times I_{o\text{ nom}}$ ); Shutdown and automatic restart in the event of a short circuit or permanent overload

#### Signaling and Communication

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

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## Efficiency/power losses

Power loss $P_l$	$\leq 0.7$ W
Power loss (max.) $P_{l(max)}$	15 W (100 VAC / 24 VDC; 4.2 A)
Efficiency (typ.)	90 % (230 VAC); 87 % (110 VAC)

## Circuit protection

Internal fuse	T 3.15 A / 500 VAC
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	Circuit breaker: 6 A (C characteristic), 10 A (B characteristic) or higher

## Safety and protection

Protection class	I
Protection type	IP20; per EN 60529
Pollution degree	2
Transient suppression (primary)	Varistor
Overvoltage protection; secondary	$\leq 31$ VDC (in the event of a fault)
Short-circuit-protected	Yes
Open-circuit-proof	Yes
Parallel operation	Yes
Series operation	Yes
MTBF	> 500,000 h (per IEC 61709)

## Connection data

Connection type 1	Input/Output
Connection technology	Push-in CAGE CLAMP®
WAGO connector	<i>picoMAX</i> ® 5.0, WAGO 2092 Series
Solid conductor	0.2 ... 2.5 mm <sup>2</sup> / 24 ... 12 AWG
Fine-stranded conductor	0.2 ... 2.5 mm <sup>2</sup> / 24 ... 12 AWG
Strip length	9 ... 10 mm / 0.35 ... 0.39 inches

## Physical data

Width	108 mm / 4.252 inches
Height	90 mm / 3.543 inches
Depth	56 mm / 2.205 inches

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Depth from upper-edge of DIN-rail	52.5 mm / 2.067 inches
Note (dimensions)	Depth: 48 mm (without cover)

### Mechanical Data

Housing design	DIN-rail-mount enclosure
Mounting type	DIN-35 rail Screw mount (back/side)

### Material Data

Flammability class per UL94	V0
Weight	456.9 g

### Environmental requirements

Ambient temperature (operation)	-25 ... +70 °C
Ambient temperature (storage)	-40 ... +85 °C
Relative humidity	95% (no condensation permissible)
Derating	-2.66 %/K (> 55 °C)
Climatic category	3K3 (per EN 60721; except for low air pressure)

### 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 pcs
Packaging type	box
Country of origin	CN
GTIN	4055143907804
Customs tariff number	85044083900

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## Environmental Product Compliance

RoHS Compliance Status	Compliant, No Exemption
SCIP notification number (Bulgaria)	ca2e8647-4913-4ddb-9aae-499d1789bbbd
SCIP notification number (Czech Republic)	eb73b17d-78c9-4111-8352-17210dfcbfc9

## Approvals / Certificates

### General approvals

Logo	Approval	Additional Approval Text	Certificate name
	<b>EAC</b> Brjansker Zertifizierungsstelle	TP TC 004/2011, TP TC 020/2011	EAC RU C-DE.AM02.B.00089_19
	<b>UL</b> Underwriters Laboratories Inc.	UL 508	E255817
	<b>UL</b> Underwriters Laboratories Inc.	UL 60950-1	E255815

### Declarations of conformity and manufacturer's declarations

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

## Optional accessories

### Strain relief

Strain relief plate		
<b>Item no.: 2092-1601</b>	Gripping plate; for female and male connectors; 1 part; Pin spacing 5 mm; 3- to 4-pole; light gray	<a href="http://www.wago.com/2092-1601">www.wago.com/2092-1601</a>

### Tool

Operating tool		
<b>Item no.: 210-769</b>	SCREWDRIVER; green	<a href="http://www.wago.com/210-769">www.wago.com/210-769</a>
<b>Item no.: 210-720</b>	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>

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## Downloads Documentation

### Manual

Product Manual COMPACT Power; 1-phase DC 24 V / 4.2 A	V 1.0.1 2021 年1月21 日	pdf 1.6 MB	Download
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### Bid Text

787-1216 X81 - Datei	2019 年7月4 日	xml 7.4 kB	Download
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### Instruction Leaflet

Primär getaktete Stromversorgungen COMPACT DC 24 V, 4,2 A		pdf 1.6 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 787-1216		URL	Download
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WSCAD Universe 787-1216		URL	Download
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ZUKEN Portal 787-1216		URL	Download
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### CAD data

2D/3D Models 787-1216		URL	Download
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## Environmental Product Compliance

### Compliance Search

Environmental Product Compliance 787-1216

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## Installation Notes

## Product family

**EPSITRON COMPACT Power**

EPSITRON® COMPACT POWER: Compact, High-Performance Power Supplies

[Show all products from the family](#)

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