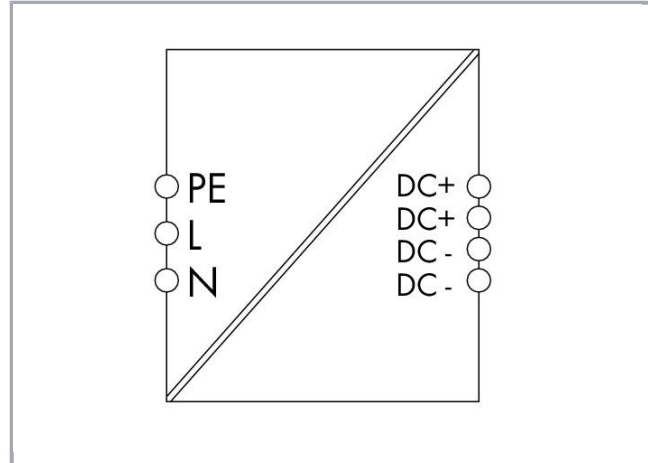


# Data sheet | Item number: 787-1216

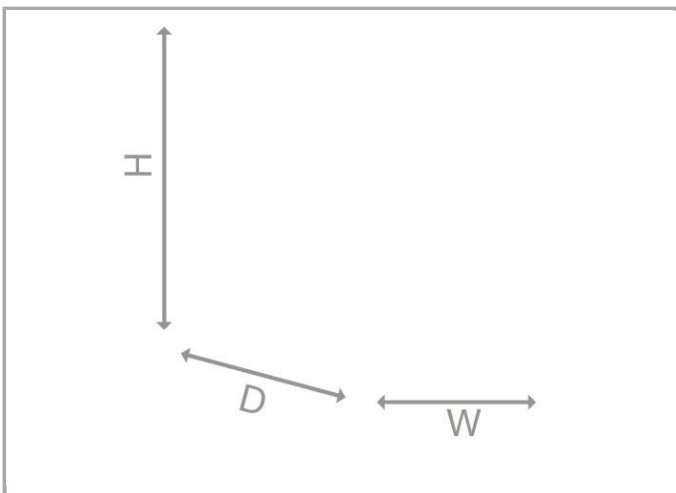
Switched-mode power supply; Compact; 1-phase; 24 VDC output voltage;  
4.2 A output current

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



RoHS  Compliant

[BOMcheck.net](http://BOMcheck.net)



## Item description

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

WAGO Kontakttechnik GmbH & Co. KG  
Hansastr. 27  
32423 Minden  
Phone: +49571 887-0 | Fax: +49571 887-169  
Email: [info.de@wago.com](mailto:info.de@wago.com) | Web: [www.wago.com](http://www.wago.com)

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



## 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)
- 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 $U_{i\text{ nom}}$	AC 100 ... 240 V
Input voltage range	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 $I_i$	≤ 2,5 A
Discharge current	≤ 0,25 mA
Inrush current	≤ 20 A
Power factor	≥ 0,5
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 50 ms

## Output

Nominal output voltage $U_{o\text{ nom}}$	DC 24 V (SELV)
Output voltage range	DC 22 ... 26 V (adjustable)
Factory preset	DC 24 V
Nominal output current $I_{o\text{ nom}}$	4,2 A; 3,3 A (< 110 VAC)
Nominal output power	100 W
Adjustment accuracy	≤ 1 %
Deviation, dynamic load change 10 ... 90 %	≤ 1 %
Residual ripple	≤ 100 mV (peak-to-peak)
Overload behavior	Constant power (in overload range: 1.05 ... 1.35 x $I_{o\text{ nom}}$ ); Shutdown and automatic restart in the event of a short circuit or permanent

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

overload

## 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>	≤ 0,7 W (230 VAC; No load)
Max. power loss P <sub>v max.</sub>	15 W (100 VAC / 24 VDC; 4.2 A)
Efficiency (typ.)	90 % (230 VAC); 87 % (110 VAC)

## Fuse protection:

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

## Safety and protection:

Insulation voltage (PRI-SEC)	DC 4,242 kV
Protection class	I
Protection class	IP20 (per EN 60529)
Feedback voltage	≤ DC 35 V
Transient protection, primary	Varistor
Overvoltage protection, secondary	≤ 31 VDC (in the event of a fault)
Short circuit protection	Yes
No-load proof	Yes
Parallel operation	Yes
Series connection	Yes
MTBF	> 500,000 h (per IEC 61709)

## Connection data

Connection type (1)	Input/Output
Connection technology	Push-in CAGE CLAMP®
WAGO terminal	picoMAX® 5.0, WAGO 2092 Series
Solid conductor	0,2 ... 2,5 mm <sup>2</sup> / 24 ... 12 AWG

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



Fine-stranded conductor	0,2 ... 2,5 mm <sup>2</sup> / 24 ... 12 AWG
Strip length	9 ... 10 mm / 0.35 ... 0.39 inch

### Geometrical Data

Width	108 mm / 4.252 inch
Height	90 mm / 3.543 inch
Depth	56 mm / 2.205 inch
Length from upper-edge of DIN-35 rail	52,5 mm / 2.067 inch
Note on dimensions	Depth: 48 mm (without front panel)

### Mechanical data

Type of mounting	DIN-35 rail (EN 60715) Screw mount (back/side)
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### Material Data

Flammability class per UL94	V0
Weight	456.9 g

### Environmental Requirements

Surrounding air (operating) temperature	-25 ... 70 °C
Surrounding air (storage) temperature	-40 ... 85 °C
Relative humidity	≤ 95% (no condensation permissible)
Derating	-2.66 %/K (> 55 °C)
Pollution degree	2
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

Packaging type	BOX
Country of origin	CN
GTIN	4055143907804
Customs Tariff No.	85044082900

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

## Approvals / Certificates

### UL-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	UL Underwriters Laboratories Inc.	UL 60950-1	E255815
	UL Underwriters Laboratories Inc.	UL 508	E255817

## Counterpart

## Compatible products

### Strain relief plate

Item no.: 2092-1601  
Gripping plate; light gray

[www.wago.com/2092-1601](http://www.wago.com/2092-1601)

### tools

Item no.: 210-720  
Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft

[www.wago.com/210-720](http://www.wago.com/210-720)



Item no.: 210-769  
SCREWDRIVER; green

[www.wago.com/210-769](http://www.wago.com/210-769)

### ferrule



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

[www.wago.com/216-201](http://www.wago.com/216-201)



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

[www.wago.com/216-202](http://www.wago.com/216-202)

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

[www.wago.com/216-203](http://www.wago.com/216-203)

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

[www.wago.com/216-204](http://www.wago.com/216-204)

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

[www.wago.com/216-301](http://www.wago.com/216-301)

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

Item no.: 216-302

Ferrule; Sleeve for 0.34 mm<sup>2</sup> / 22 AWG; insulated; electro-tin plated; green

[www.wago.com/216-302](http://www.wago.com/216-302)

## Downloads

### Documentation

#### Manual

COMPACT Power DC Power Supply	V 1.0.0	pdf 2.6 MB	Download
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#### Instruction Leaflet

Primär getaktete Stromversorgungen EPSITRON COMPACT Power DC 24 V, 4,2 A		pdf 1.6 MB	Download
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#### Additional Information

Disposal; Electrical and electronic equipment, Packaging	V 1.0.0	pdf 265.8 kB	Download
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## CAD/CAE-Data

### CAD data

2D/3D Models 787-1216		URL	Download
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### CAE data

EPLAN Data Portal 787-1216		URL	Download
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WSCAD Universe 787-1216		URL	Download
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## Installation Notes

### Product family

**Compact**

[Show all products from the family](#)

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