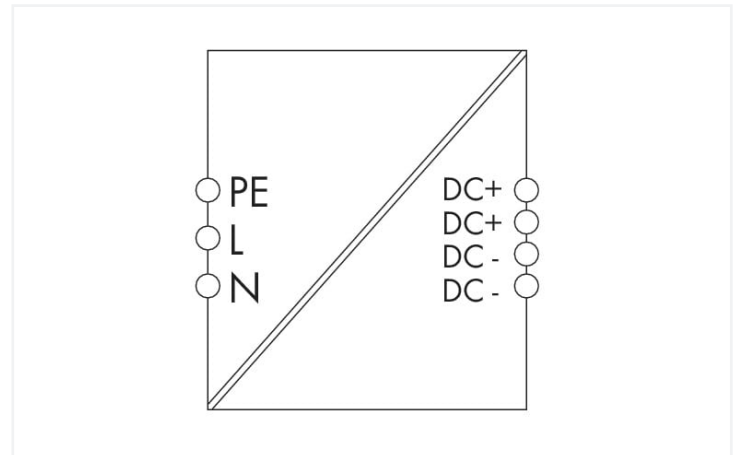


## Data Sheet | Item Number: 787-1216

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

<https://www.wago.com/787-1216>



### 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

### Technical data

Input		Output	
Phases	1	Nominal output voltage $U_{o, nom}$	DC 24 V (SELV)
Nominal input voltage $U_{i, nom}$	1 x AC 100 ... 240 V	Output voltage range	DC 22 ... 26 V (adjustable)
Input voltage range	1 x AC 85 ... 264 V; DC 125 ... 375 V	Default setting	DC 24 V
Input voltage derating	-2 %/V (< 100 VAC); -1.33 %/V (< 140 VDC)	Nominal output current $I_{o, nom}$	4.2 A; 3.3 A (
Nominal mains frequency range	47 ... 63 Hz; 0 Hz	Nominal output power	100 W
Input current $I_i$	$\leq 2.5$ A	Deviation	$\leq 1$ %
Discharge current	$\leq 0.25$ mA	Deviation, dynamic load change 10 ... 90 %	$\leq 1$ %
Inrush current	$\leq 20$ A	Residual ripple	$\leq 100$ mV (peak-to-peak)
Power factor	$\geq 0.5$	Overload behavior	Constant power (in overload range: 1.05 ... 1.35 x $I_{o, nom}$ ); Shutdown and automatic restart in the event of a short circuit or permanent overload
Power factor correction (PFC)	Passive		
Mains failure hold-up time	$\geq 50$ ms		

### Signaling and communication

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

### 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

Isolation voltage (pri.-sec.)	DC 4.242 kV
Protection class	I
Protection type	IP20; per EN 60529
Resistance to reverse feed	≤ DC 35 V
Pollution degree	2
Transient suppression (primary)	Varistor
Oversvoltage protection; secondary	≤ 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
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
Fire load	0 MJ
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

## 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

### Declarations of conformity and manufacturer's declarations



Approval	Standard	Certificate Name
EAC Brjansker Zertifizierungs- stelle	TP TC 004/2011, TP TC 020/2011	EAC RU C-DE.AM02. B.00089_19
UL Underwriters Laboratories Inc.	UL 508	E255817
UL Underwriters Laboratories Inc.	UL 60950-1	E255815

Approval	Standard	Certificate Name
EU-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-

## Downloads

### Environmental Product Compliance

#### Compliance Search

Environmental Product  
Compliance 787-1216



## Documentation

Manual			
Product Manual COM-PACT Power; 1-phase	V 1.0.0 24.11.2020	pdf 1544.13 KB	<a href="#">↓</a>

Bid Text			
787-1216	04.07.2019	xml 7.26 KB	<a href="#">↓</a>
787-1216	12.06.2019	docx 20.66 KB	<a href="#">↓</a>
ausschreiben.de 787-1216			<a href="#">↓</a>

Instruction Leaflet			
Primär getaktete Stromversorgungen COMPACT		pdf 1527.06 KB	<a href="#">↓</a>

## CAD/CAE-Data

CAD data	
2D/3D Models 787-1216	<a href="#">↓</a>

CAE data	
EPLAN Data Portal 787-1216	<a href="#">↓</a>
WSCAD Universe 787-1216	<a href="#">↓</a>
ZUKEN Portal 787-1216	<a href="#">↓</a>

## 1 Compatible Products

### 1.1 Optional Accessories

#### 1.1.1 Strain relief

##### 1.1.1.1 Strain relief plate



###### Item No.: 2092-1601

Gripping plate; for female and male connectors; 1 part; Pin spacing 5 mm; 3- to 4-pole; light gray

#### 1.1.2 Tool

##### 1.1.2.1 Operating tool



###### Item No.: 210-720

Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured



###### Item No.: 210-769

SCREWDRIVER; green

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

Current addresses can be found at: [www.wago.com](http://www.wago.com)