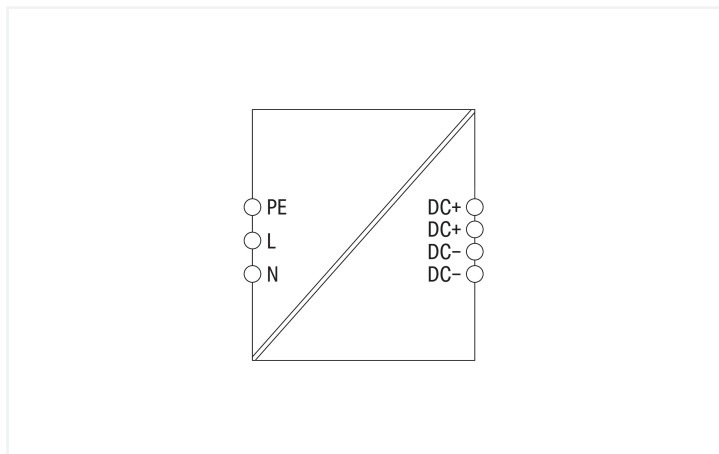


## Data Sheet | Item Number: 787-1216

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*® 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 $U_{o, nom}$	24 VDC (SELV)
Nominal input voltage $U_{i, nom}$	1 x 100 ... 240 VAC	Output voltage range	22 ... 26 VDC (adjustable)
Input voltage range	1 x 85 ... 264 VAC; 125 ... 375 VDC	Default Setting	24 VDC
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 DC OK LED (green)
Operation status indicator	Green LED ( $U_o$ )

### Efficiency/Power Losses

Power loss $P_I$	$\leq 0.7$ W
Power loss (max.) $P_{I(max)}$	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
Pre-fuse (required)	An external DC fuse is required for the DC input voltage.
Backup fuse (recommended)	Circuit breaker: 6 A (C characteristic), 10 A (B characteristic) or higher

### Safety and protection

Isolation voltage (pri.-sec.)	4.242 kVDC
Protection class	I
Protection type	IP20; per EN 60529
Resistance to reverse feed	≤ 35 VDC
Pollution degree	2
Transient suppression (primary)	Varistor
Overvoltage 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 1

Connection type	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

PU (SPU)	1 pcs
Packaging type	Box
Country of origin	CN
GTIN	4055143907804
Customs tariff number	85044083900

### Product Classification

UNSPSC	39121004
eCl@ss 10.0	27-04-07-01
eCl@ss 9.0	27-04-07-01
ETIM 9.0	EC002540
ETIM 10.0	EC002540
ECCN	NO US CLASSIFICATION

### 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



#### General approvals

UR	UL 60950-1	E255815
Underwriters Laboratories Inc.		

Approval	Standard	Certificate Name
EAC GZO Almaty Standart	TP TC 004/2011	EAC CoC 03078
EAC GZO Almaty Standart	TP TC 020/2011	EAC CoC 03081
UL Underwriters Laboratories Inc.	UL 508	E255817

**Declarations of conformity and manufacturer's declarations**

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

**Downloads**

**Environmental Product Compliance**

Compliance Search
Environmental Product Compliance 787-1216 <a href="#">↓</a>

**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 Gripping 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