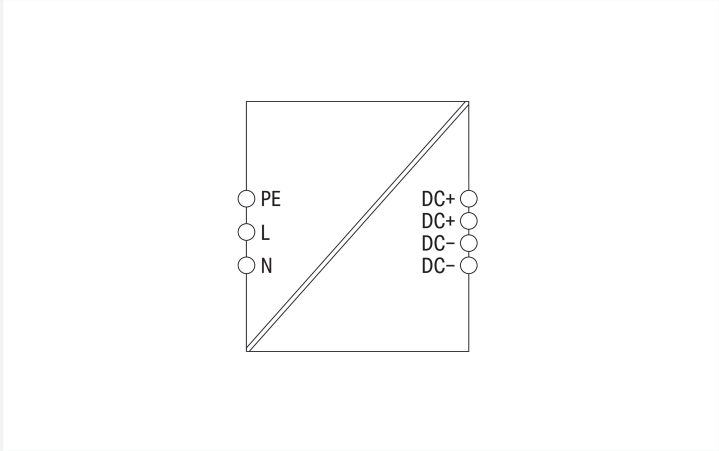
Data Sheet | Item Number: 787-1216

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

Phases	1
Nominal input voltage $U_{i\,nom}$	1 x 100 … 240 VAC
Input voltage range	1 x 85 … 264 VAC; 125 … 375 VDC
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 $U_{o\,nom}$	24 VDC (SELV)
Output voltage range	22 … 26 VDC (adjustable)
Default Setting	24 VDC
Nominal output current $I_{o\,nom}$	4.2 A; 3.3 A (
Nominal output power	100 W
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 … 1.35 x $I_{o\,nom}$); Shutdown and automatic restart in the event of a short circuit or permanent overload

Signaling and Communication

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

Efficiency/Power Losses

Power loss P_l	≤ 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)

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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	*picoMAX*® 5.0, WAGO 2092 Series
Solid conductor	0.2 … 2.5 mm² / 24 … 12 AWG
Fine-stranded conductor	0.2 … 2.5 mm² / 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)

Continued on next page

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

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

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

General approvals

UR Underwriters Laboratories Inc.	UL 60950-1	E255815

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Declarations of conformity and manufacturer's declarations

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

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 787-1216

Documentation

Manual

Product Manual COMPACT Power; 1-phase	V 1.0.0 24.11.2020	pdf 1544.13 KB

Bid Text

787-1216	04.07.2019	xml 7.26 KB
787-1216	12.06.2019	docx 20.66 KB
ausschreiben.de 787-1216		

Instruction Leaflet

Primär getaktete Stromversorgungen COMPACT	pdf 1527.06 KB

CAD/CAE-Data

CAD data

2D/3D Models 787-1216

CAE data

EPLAN Data Portal 787-1216

WSCAD Universe 787-1216

ZUKEN Portal 787-1216

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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