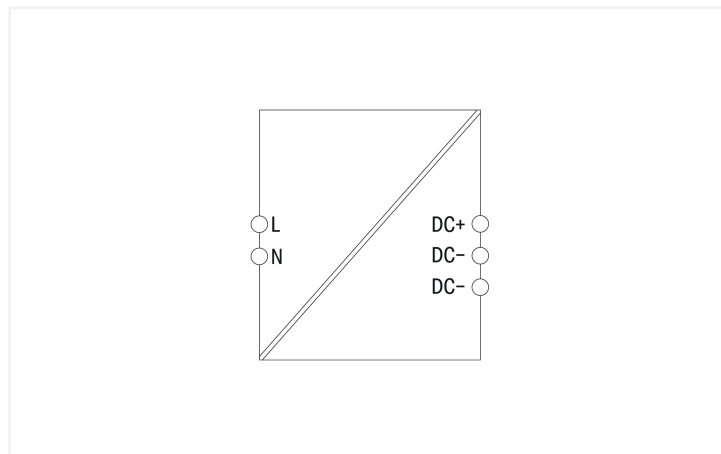


## Data Sheet | Item Number: 787-1200

Switched-mode power supply; Compact; 1-phase; 24 VDC output voltage; 0.5 A output current; DC-OK LED

<https://www.wago.com/787-1200>



### Features:

- Switched-mode power supply
- Stepped profile, ideal for distribution boards/boxes
- Pluggable *picoMAX*® Connection Technology (tool-free)
- Series operation
- Electrically isolated output voltage (SELV) per EN 62368/UL 62368 and EN 60335-1; PELV per EN 60204

### Technical data

#### Input

Phases	1
Nominal input voltage $U_{i, \text{nom}}$	1 x 100 ... 240 VAC
Input voltage range	1 x 90 ... 264 VAC
Input voltage derating	-2 %/V (< 100 VAC)
Nominal mains frequency range	47 ... 63 Hz
Input current $I_i$	$\leq 0.27$ A (100 VAC; 0.5 ADC)
Discharge current	$\leq 0.25$ mA
Inrush current	$\leq 30$ A (NTC)
Power factor	$\geq 0.5$
Power factor correction (PFC)	None
Mains failure hold-up time	$\geq 100$ ms (230 VAC)

#### Output

Nominal output voltage $U_{o, \text{nom}}$	24 VDC (SELV)
Nominal output current $I_{o, \text{nom}}$	0.5 A
Nominal output power	12 W
Deviation	$\leq 1$ %
Deviation, dynamic load change 10 ... 90 %	$\leq 1$ %
Residual ripple	$\leq 100$ mV (peak-to-peak)
Overload behavior	Shutdown and automatic restart in the event of a short circuit

### Signaling and Communication

Signaling	1 x Status indication LED (green)
Operation status indicator	Green LED ( $U_o$ )

### Efficiency/Power Losses

Power loss $P_i$	$\leq 0.2$ W
Power loss (max.) $P_{i(\text{max})}$	2.5 W (100 VAC / 24 VDC; 0.5 A)
Efficiency (typ.)	83 % (230 VAC; nominal load); 82 % (110 VAC; nominal load)

### Circuit Protection

Internal fuse	T 1 A / 250 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	II
Protection type	IP20; per EN 60529
Reverse voltage protection	Yes
Resistance to reverse feed	≤ 31 VDC
Overvoltage category	II
Pollution degree	2
Transient suppression (primary)	Yes
Overvoltage protection; secondary	≤ 31 VDC (in the event of a fault)
Short-circuit-protected	Yes
Open-circuit-proof	Yes
Parallel operation	No
Series operation	Yes, for 2 devices of the same type
MTBF	> 700,000 h (per IEC 61709)

### Connection Data

Cable length (max.)	30 m
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#### Connection 1

Connection type	Input
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

#### Connection 2

Connection type	Output
Connection technology	Push-in CAGE CLAMP®
WAGO connector	<i>picoMAX</i> ® 3.5 (WAGO 2091 Series)
Solid conductor	0.2 ... 1.5 mm <sup>2</sup> / 24 ... 14 AWG
Fine-stranded conductor	0.2 ... 1.5 mm <sup>2</sup> / 24 ... 14 AWG
Strip length	8 ... 9 mm / 0.31 ... 0.35 inches

### Physical data

Width	18 mm / 0.7 inches
Height	90 mm / 3.543 inches
Depth	55 mm / 2.165 inches
Depth from upper-edge of DIN-rail	52.5 mm / 2.067 inches

### Mechanical data

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

### Material data

Flammability class per UL94	V2
Fire load	0.113 MJ
Weight	63 g

### Environmental requirements

Ambient temperature (operation)	-25 ... +70 °C
Ambient temperature (storage)	-40 ... +85 °C
Relative humidity	20 ... 90 % (no condensation permissible)
Derating	-2.6 %/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 UL 62368 UL 508

### Commercial data

PU (SPU)	1 pcs
Packaging type	Box
Country of origin	CN
GTIN	4055143812184
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)	d77ec3ad-d4ea-40c4-987e-5ae1218cbb93
SCIP notification number (Czech Republic)	0a095fbc-0aaf-4376-9f91-7363a8eac7f7

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
UR Underwriters Laboratories Inc.	UL 62368-1	E255815

Declarations of conformity and manufacturer's declarations

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

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 787-1200	<a href="#">↓</a>
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Documentation

Manual			
Product Manual COM-PACT Power		pdf 1131.63 KB	<a href="#">↓</a>
Product Manual Power Supply 24 V	V 1.0.0	pdf 1199.71 KB	<a href="#">↓</a>

Bid Text			
787-1200	24.06.2019	xml 6.99 KB	<a href="#">↓</a>
787-1200	12.06.2019	docx 20.30 KB	<a href="#">↓</a>
ausschreiben.de 787-1200			<a href="#">↓</a>

Instruction Leaflet

Primär getaktete Stromversorgungen COMPACT	V 2.0.0 20.11.2020	pdf 2334.72 KB	<a href="#">↓</a>
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CAD/CAE-Data

CAD data	
2D/3D Models 787-1200	<a href="#">↓</a>

CAE data	
EPLAN Data Portal 787-1200	<a href="#">↓</a>
ZUKEN Portal 787-1200	<a href="#">↓</a>

## 1 Compatible Products

### 1.1 Optional Accessories

#### 1.1.1 Tool

##### 1.1.1.1 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



**Item No.: 2092-1630**

Unlocking tool; orange