

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

www.wago.com/787-1200



Item description

Features:

- Switched-mode power supply
- Stepped profile, ideal for distribution boards/boxes
- Pluggable *picoMAX*[®] Connection Technology (tool-free)
- Series operation

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

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- Electrically isolated output voltage (SELV) per EN 62368/UL 62368 and EN 60335-1; PELV per EN 60204

Data

Technical data

Input

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

Output

| | |
|--|--|
| Nominal output voltage $U_{o\text{nom}}$ | DC 24 V (SELV) |
| Nominal output current $I_{o\text{nom}}$ | 0.5 A |
| Nominal output power | 12 W |
| Deviation | ≤ 1 % |
| Deviation, dynamic load change 10 ... 90 % | ≤ 1 % |
| Residual ripple | ≤ 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_l | ≤ 0.2 W |
| Power loss (max.) $P_{l(\text{max})}$ | 2.5 W (100 VAC / 24 VDC; 0.5 A) |
| Efficiency (typ.) | 83 % (230 VAC; nominal load); 82 % (110 VAC; nominal load) |

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

Circuit protection

| | |
|-----------------------------|--|
| Internal fuse | T 1 A / 250 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

| | |
|-----------------------------------|-------------------------------------|
| Protection class | II |
| Protection type | IP20; per EN 60529 |
| Reverse voltage protection | Yes |
| 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

| | |
|---------------------------|---|
| Connection type 1 | Input |
| Connection technology | Push-in CAGE CLAMP® |
| WAGO connector | <i>picoMAX</i> ® 5.0, WAGO 2092 Series |
| Solid conductor | 0.2 ... 2.5 mm ² / 24 ... 12 AWG |
| Fine-stranded conductor | 0.2 ... 2.5 mm ² / 24 ... 12 AWG |
| Strip length | 9 ... 10 mm / 0.35 ... 0.39 inches |
| Connection type 2 | Output |
| Connection technology 2 | Push-in CAGE CLAMP® |
| WAGO connector 2 | <i>picoMAX</i> ® 3.5 (WAGO 2091 Series) |
| Solid conductor 2 | 0.2 ... 1.5 mm ² / 24 ... 14 AWG |
| Fine-stranded conductor 2 | 0.2 ... 1.5 mm ² / 24 ... 14 AWG |
| Strip length 2 | 8 ... 9 mm / 0.31 ... 0.35 inches |
| Cable length (max.) | 30 m |

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



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

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

Material Data

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|-----------------------------|----------|
| Flammability class per UL94 | V2 |
| Fire load | 0.109 MJ |
| Weight | 63 g |

Environmental requirements

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|---------------------------------|---|
| 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

| | |
|--------------|-------------|
| eCl@ss 10.0 | 27-04-07-01 |
| eCl@ss 9.0 | 27-04-07-01 |
| ETIM 8.0 | EC002540 |
| ETIM 7.0 | EC002540 |
| Recupel Type | |

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| | |
|-----------------------|---------------|
| PU (SPU) | 1 pcs |
| Packaging type | box |
| Country of origin | CN |
| GTIN | 4055143812184 |
| Customs tariff number | 85044083900 |

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

| Logo | Approval | Additional Approval Text | Certificate name |
|------|---|--------------------------------|-----------------------------|
| | EAC Brjansker Zertifizierungsstelle | TP TC 004/2011, TP TC 020/2011 | EAC RU C-DE.AM02.B.00089_19 |
| | UL Underwriters Laboratories Inc. | UL 508 | E255817 |
| | UR Underwriters Laboratories Inc. | UL 62368-1 | E255815 |

Declarations of conformity and manufacturer's declarations

| Logo | Approval | Additional Approval Text | Certificate name |
|------|---|--------------------------|------------------|
| | EU-Declaration of Conformity WAGO GmbH & Co. KG | - | - |

Optional accessories

Tool

| Operating tool | | |
|--|--|--|
| Item no.: 2092-1630 Unlocking tool; orange | | www.wago.com/2092-1630 |
| Item no.: 210-769 SCREWDRIVER; green | | www.wago.com/210-769 |
| Item no.: 210-720 Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured | | www.wago.com/210-720 |

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



Downloads

Documentation

Manual

| | | | |
|----------------------------------|---------|---------------|----------|
| Product Manual Power Supply 24 V | V 1.0.0 | pdf 1.2 MB | Download |
|----------------------------------|---------|---------------|----------|

Bid Text

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|-------------------------|--------------|---------------|----------|
| 787-1200 X81 - Datei | 2019 年6月24 日 | xml 7.2 kB | Download |
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| 787-1200 docx - Datei | 2019 年6月12 日 | docx 20.8 kB | Download |
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| ausschreiben.de 787-1200 | | URL | Download |
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Instruction Leaflet

| | | | |
|--|--------------------------|---------------|----------|
| Primär getaktete Stromversorgungen COMPACT DC 24 V, 0,5 A | V 2.0.0 2020 年11月20 日 | pdf 2.4 MB | Download |
|--|--------------------------|---------------|----------|

Additional Information

| | | | |
|---|-------------------------|---------------|----------|
| Disposal and Recycling Electrical and electronic equipment, Batteries, Packaging | V 1.1.0 2022 年8月18 日 | pdf 2.2 MB | Download |
|---|-------------------------|---------------|----------|

CAD/CAE-Data

CAE data

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|-----------------------|--|-----|----------|
| ZUKEN Portal 787-1200 | | URL | Download |
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| EPLAN Data Portal 787-1200 | | URL | Download |
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CAD data

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| 2D/3D Models 787-1200 | | URL | Download |
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Environmental Product Compliance

Compliance Search

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Installation Notes

Product family

EPSITRON COMPACT Power

EPSITRON® COMPACT POWER: Compact, High-Performance Power Supplies

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