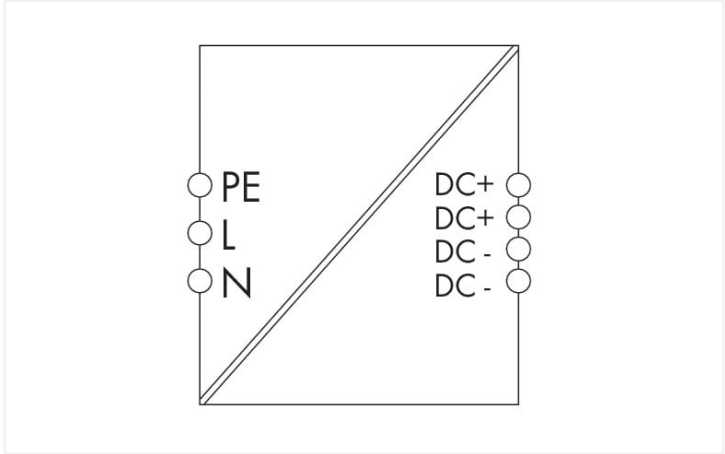


Data Sheet | Item Number: 787-1211

Switched-mode power supply; Compact; 1-phase; 12 VDC output voltage; 5 A output current; DC-OK LED

<https://www.wago.com/787-1211>



Features:

- Switched-mode power supply
- Stepped profile for installation in standard distribution boards
- Removable front panel and 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 $U_{o\ nom}$        | DC 12 V (SELV)                                                                                                                 |
| Nominal input voltage $U_{i\ nom}$ | 1 x AC 100 ... 240 V; DC 140 ... 340 V    | Output voltage range                       | DC 10 ... 14 V (adjustable)                                                                                                    |
| Input voltage range                | 1 x AC 85 ... 264 V; DC 125 ... 375 V     | Default setting                            | DC 12 V                                                                                                                        |
| Input voltage derating             | -2 %/V (< 100 VAC); -1.33 %/V (< 140 VDC) | Nominal output current $I_{o\ nom}$        | 5 A                                                                                                                            |
| Nominal mains frequency range      | 47 ... 63 Hz; 0 Hz                        | Nominal output power                       | 60 W                                                                                                                           |
| Input current $I_i$                | ≤ 0.6 A                                   | Deviation                                  | ≤ 1 %                                                                                                                          |
| Discharge current                  | ≤ 0.25 mA                                 | Deviation, dynamic load change 10 ... 90 % | ≤ 1 %                                                                                                                          |
| Inrush current                     | ≤ 30 A (NTC)                              | Residual ripple                            | ≤ 100 mV (peak-to-peak)                                                                                                        |
| Power factor                       | ≥ 0.5                                     | Overload behavior                          | Constant power (in overload range: 1.22 ... 1.7 x $I_{o\ nom}$ ); Hiccup in the event of a short circuit or permanent overload |
| Power factor correction (PFC)      | Passive                                   |                                            |                                                                                                                                |
| Mains failure hold-up time         | ≥ 600 ms (230 VAC); ≥ 12 ms (110 VAC)     |                                            |                                                                                                                                |

Signaling and communication

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

Efficiency/power losses

|                                   |                                                                |
|-----------------------------------|----------------------------------------------------------------|
| Power loss $P_i$                  | ≤ 0.6 W                                                        |
| Power loss (max.) $P_{i\ (max.)}$ | 9 W (100 VAC / 12 VDC; 2.5 A)                                  |
| Efficiency (typ.)                 | 88.5 % (230 VAC; nominal load); 87.5 % (110 VAC; nominal load) |

Circuit protection

|                             |                                                                  |
|-----------------------------|------------------------------------------------------------------|
| Internal fuse               | T 3.15 A / 250 VAC                                               |
| Backup fusing (required)    | An external DC fuse is required for the DC input voltage.        |
| Backup fusing (recommended) | Circuit breaker: 6 A, 10 A or higher; Tripping characteristic: B |



| Safety and protection              |                                     |
|------------------------------------|-------------------------------------|
| Isolation voltage (pri.-sec.)      | DC 4.242 kV                         |
| Isolation voltage (pri.-PE)        | DC 2.12 kV                          |
| Protection class                   | I                                   |
| Protection type                    | IP20; per EN 60529                  |
| Reverse voltage protection         | Yes                                 |
| Resistance to reverse feed         | ≤ DC 16 V                           |
| Oversvoltage category              | II                                  |
| Pollution degree                   | 2                                   |
| Transient suppression (primary)    | Varistor                            |
| Oversvoltage protection; secondary | ≤ 20 VDC (in the event of a fault)  |
| Short-circuit-protected            | Yes                                 |
| Open-circuit-proof                 | Yes                                 |
| Parallel operation                 | Yes, for devices of the same type   |
| Series operation                   | Yes, for 2 devices of the same type |
| MTBF                               | > 500,000 h (per IEC 61709)         |

| Connection data         |                                    |
|-------------------------|------------------------------------|
| Connection type 1       | 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 |
| Cable length (max.)     | 30 m                               |

| Physical data                     |                              |
|-----------------------------------|------------------------------|
| Width                             | 72 mm / 2.835 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<br>Screw mount (back/side) |

| Material data               |      |
|-----------------------------|------|
| Flammability class per UL94 | V0   |
| Fire load                   | 0 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                        | -3 %/K (> +45 °C and U <sub>e</sub> = 90 VAC); -2.3 %/K (> +50 °C and U <sub>e</sub> = 230 VAC) |
| Climatic category               | 3K3 (per EN 60721; except for low air pressure)                                                 |

| Standards and specifications |                                                                |
|------------------------------|----------------------------------------------------------------|
| Conformity marking           | CE                                                             |
| Standards/specifications     | EN 61204-3<br>EN 60335-1<br>EN 62368-1<br>UL 60950-1<br>UL 508 |

| Commercial data       |               |
|-----------------------|---------------|
| ETIM 8.0              | EC002540      |
| ETIM 7.0              | EC002540      |
| PU (SPU)              | 1 pcs         |
| Packaging type        | Box           |
| Country of origin     | CN            |
| GTIN                  | 4055143804226 |
| Customs tariff number | 85044083900   |

| Environmental Product Compliance |                         |
|----------------------------------|-------------------------|
| RoHS Compliance Status           | Compliant, No Exemption |

Approvals / Certificates

| General approvals                                                                                                                                                                                                                                          |                                   | Declarations of conformity and manufacturer's declarations |                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|------------------------------------------------------------|------------------|
|    |                                   | Approval                                                   | Certificate Name |
| Approval                                                                                                                                                                                                                                                   | Standard                          | Standard                                                   | Certificate Name |
| EAC<br>Brjansker Zertifizierungs-<br>stelle                                                                                                                                                                                                                | TP TC 004/2011, TP TC<br>020/2011 | EU-Declaration of Confor-<br>mity<br>WAGO GmbH & Co. KG    | -                |
| UL<br>Underwriters Laboratories<br>Inc.                                                                                                                                                                                                                    | UL 508                            |                                                            | -                |
| UR<br>Underwriters Laboratories<br>Inc.                                                                                                                                                                                                                    | UL 62368-1                        |                                                            | -                |



Downloads

Environmental Product Compliance

Compliance Search

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Documentation

Manual

Product Manual DC Power Supply, 12 V

V 1.1.0

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Stromversorgung COMPACT

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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](https://www.wago.com)