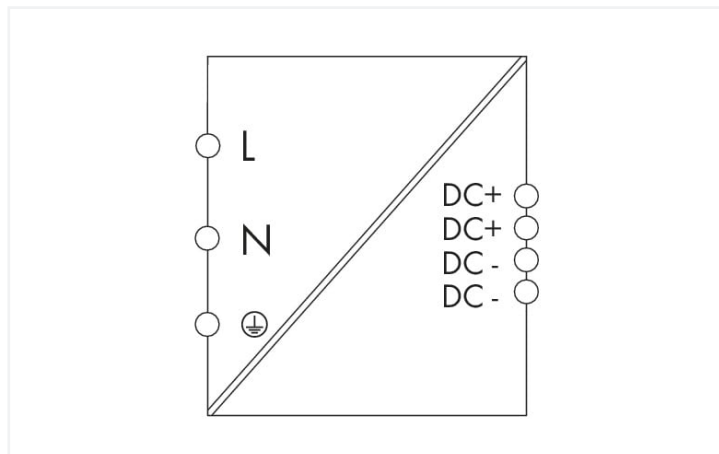


Data Sheet | Item Number: 787-1711

Switched-mode power supply; Eco; 1-phase; 12 VDC output voltage; 4 A output current; DC-OK LED

<https://www.wago.com/787-1711>



Similar to illustration

Features:

- Switched-mode power supply
- Natural convection cooling when horizontally mounted
- Encapsulated for use in control cabinets
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per EN 60335-1; PELV per EN 60204
- DIN-35 rail mountable in different positions
- Direct installation on mounting plate via cable grip

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; DC 125 ... 375 V |
| Nominal mains frequency range | 47 ... 63 Hz; 0 Hz |
| Input current I_i | ≤ 1.8 A (100 VAC) |
| Discharge current | ≤ 3.5 mA |
| Inrush current | ≤ 18 A |
| Power factor correction (PFC) | Passive |
| Mains failure hold-up time | ≥ 10 ms (230 VAC) |

Output

| | |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Nominal output voltage $U_{o, \text{nom}}$ | DC 12 V (SELV) |
| Output voltage range | DC 10 ... 14 V (adjustable) |
| Default setting | DC 12 V |
| Nominal output current $I_{o, \text{nom}}$ | 4 A (12 VDC; 110 ... 240 VAC); 3.2 A (12 VDC; 100 ... 240 VAC) |
| Nominal output power | 48 W |
| Deviation | ≤ 1 % |
| Residual ripple | ≤ 150 mV (peak-to-peak) |
| Overload behavior | Constant power (in overload range: 1.05 ... 1.4 x $I_{o, \text{nom}}$); Shutdown and automatic restart in the event of a short circuit |

Signaling and communication

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

Efficiency/power losses

| | |
|-------------------|-------------------------------------|
| Power loss P_i | ≤ 9.6 W (230 VAC; 12 VDC; 4 A) |
| Efficiency (typ.) | 80 % (230 VAC; 4 ADC) |

Circuit protection

| | |
|-----------------------------|-----------------------------------------------------------|
| Internal fuse | F 2 A / 250 VAC |
| Backup fusing (required) | An external DC fuse is required for the DC input voltage. |
| Backup fusing (recommended) | Circuit breaker: B6, B10 |

Safety and protection

| | |
|---------------------------------|-------------------------------------|
| Isolation voltage (pri.-sec.) | DC 4.242 kV |
| Isolation voltage (pri.-PE) | DC 2.2 kV |
| Isolation voltage (sec.-PE) | DC 0.7 kV |
| Protection class | I |
| Protection type | IP20; per EN 60529 |
| Resistance to reverse feed | ≤ DC 14 V |
| Oversvoltage category | II |
| Pollution degree | 2 |
| Transient suppression (primary) | Varistor |
| Short-circuit-protected | Yes |
| Open-circuit-proof | Yes |
| Parallel operation | Yes |
| Series operation | Yes, for 2 devices of the same type |
| MTBF | > 300,000 h (per IEC 61709) |

Connection data

| | |
|--------------------------------|----------------------------------------------|
| Connection type 1 | Input/output |
| Connection technology | CAGE CLAMP® |
| WAGO connector | WAGO 236 Series |
| Solid conductor | 0.08 ... 2.5 mm ² / 28 ... 12 AWG |
| Fine-stranded conductor | 0.08 ... 2.5 mm ² / 28 ... 12 AWG |
| Strip length | 6 ... 7 mm / 0.24 ... 0.28 inches |
| Note (conductor cross-section) | 12 AWG: THHN, THWN |

Physical data

| | |
|-----------------------------------|----------------------|
| Width | 40 mm / 1.575 inches |
| Height | 90 mm / 3.543 inches |
| Depth from upper-edge of DIN-rail | 99 mm / 3.898 inches |

Mechanical data

| | |
|---------------|----------------------------|
| Mounting type | DIN-35 rail Screw mount |
|---------------|----------------------------|

Material data

| | |
|-----------|----------|
| Fire load | 0.129 MJ |
| Weight | 250 g |

Environmental requirements

| | |
|---------------------------------|-------------------------------------------|
| Ambient temperature (operation) | -20 ... +60 °C |
| Ambient temperature (storage) | -25 ... +75 °C |
| Relative humidity | 10 ... 95 % (no condensation permissible) |
| Derating | -4 %/K (> 45 °C) |
| Climatic category | 3K3 (per EN 60721) |

Standards and specifications

| | |
|--------------------------|--------------------------------------------------------------------|
| Conformity marking | CE |
| Standards/specifications | EN 61204-3 EN 60335-1 EN 61558-2-6 EN 62368-1 SEMI F47 |

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 |
| PU (SPU) | 1 pcs |
| Packaging type | Box |
| Country of origin | CN |
| GTIN | 4055143656030 |
| Customs tariff number | 85044083900 |

Environmental Product Compliance

| | |
|-------------------------------------------|--------------------------------------|
| RoHS Compliance Status | Compliant, No Exemption |
| SCIP notification number (Bulgaria) | ba9a4dde-70b7-46d5-918c-d2e3694d1c3f |
| SCIP notification number (Czech Republic) | d82ac068-d9b6-4461-8538-91ca53ecf9ae |

Approvals / Certificates

General approvals



| Approval | Standard | Certificate Name |
|---------------------------------------------|-----------------------------------|---------------------------------|
| EAC Brjansker Zertifizierungs- stelle | TP TC 004/2011, TP TC 020/2011 | EAC RU C-DE.AM02. B.00089_19 |

Declarations of conformity and manufacturer's declarations

| Approval | Standard | Certificate Name |
|---------------------------------------------------------|----------|------------------|
| EU-Declaration of Confor- mity WAGO GmbH & Co. KG | - | - |
| MFD with product refe- rence WAGO GmbH & Co. KG | - | - |

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product
Compliance 787-1711



Documentation

| Bid Text | | | |
|----------|------------|------------------|-------------------|
| 787-1711 | 01.10.2019 | xml 6.77 KB | ↓ |
| 787-1711 | 25.11.2019 | docx 17.40 KB | ↓ |

| Instruction Leaflet | | | |
|----------------------------------------|---------------------|------------------|-------------------|
| ECO Power Switched-Mode Power Supplies | V 1.4 21.12.2020 | pdf 248.33 KB | ↓ |

CAD/CAE-Data

| CAD data | |
|--------------------------|-------------------|
| 2D/3D Models 787-1711 | ↓ |

| CAE data | |
|-------------------------------|-------------------|
| EPLAN Data Portal 787-1711 | ↓ |
| ZUKEN Portal 787-1711 | ↓ |

1 Compatible Products

1.1 Optional Accessories

1.1.1 Marking

1.1.1.1 Marking strip



Item No.: 210-831

Marking strips; on reel; 2.3 mm wide; plain; Self-adhesive; white

Item No.: 210-832

Marking strips; on reel; 3 mm wide; plain; Self-adhesive; white

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