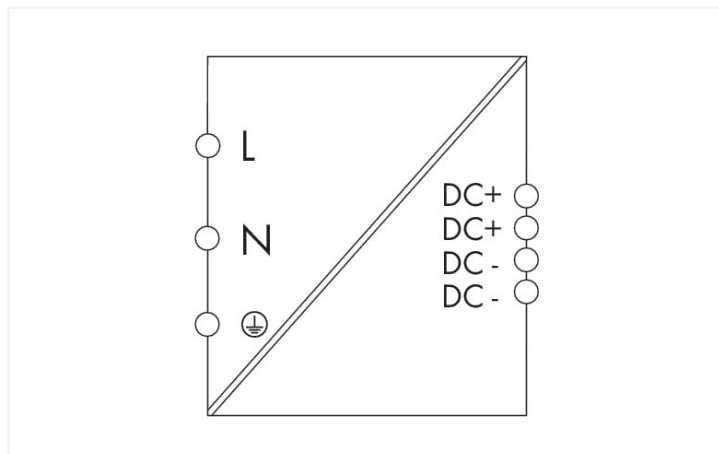


Data Sheet | Item Number: 787-1722

Switched-mode power supply; Eco; 1-phase; 24 VDC output voltage; 5 A output current; DC-OK LED

<https://www.wago.com/787-1722>



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 and UL 60950-1; 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 A (230 VAC); ≤ 2 A (115 VAC) |
| Discharge current | ≤ 1.5 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 24 V (SELV) |
| Output voltage range | DC 22 ... 26 V (adjustable) |
| Default setting | DC 24 V |
| Nominal output current $I_{o, \text{nom}}$ | 5 A (24 VDC; 110 ... 240 VAC); 4 A (24 VDC; 100 ... 240 VAC) |
| Nominal output power | 120 W |
| Deviation | ≤ 1 % |
| Residual ripple | ≤ 200 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_l | ≤ 19 W |
| Efficiency (typ.) | 88 % (230 VAC; 5 ADC) |

Circuit protection

| | |
|-----------------------------|---|
| Internal fuse | F 2.5 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 30 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 | 60 mm / 2.362 inches |
| Height | 130 mm / 5.112 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 | 550 g |

Environmental requirements

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

Standards and specifications

| | |
|--------------------------|--|
| Conformity marking | CE |
| Standards/specifications | EN 61204-3 EN 60335-1 EN 62368-1 UL 60950-1 UL 508 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 | 4055143372442 |
| Customs tariff number | 85044083900 |

Environmental Product Compliance

| | |
|---|--------------------------------------|
| RoHS Compliance Status | Compliant, No Exemption |
| SCIP notification number (Bulgaria) | aa2613f5-6113-400e-be75-dc6756207f88 |
| SCIP notification number (Czech Republic) | 7ede9750-7374-4598-8c28-b0e5d82e38fc |