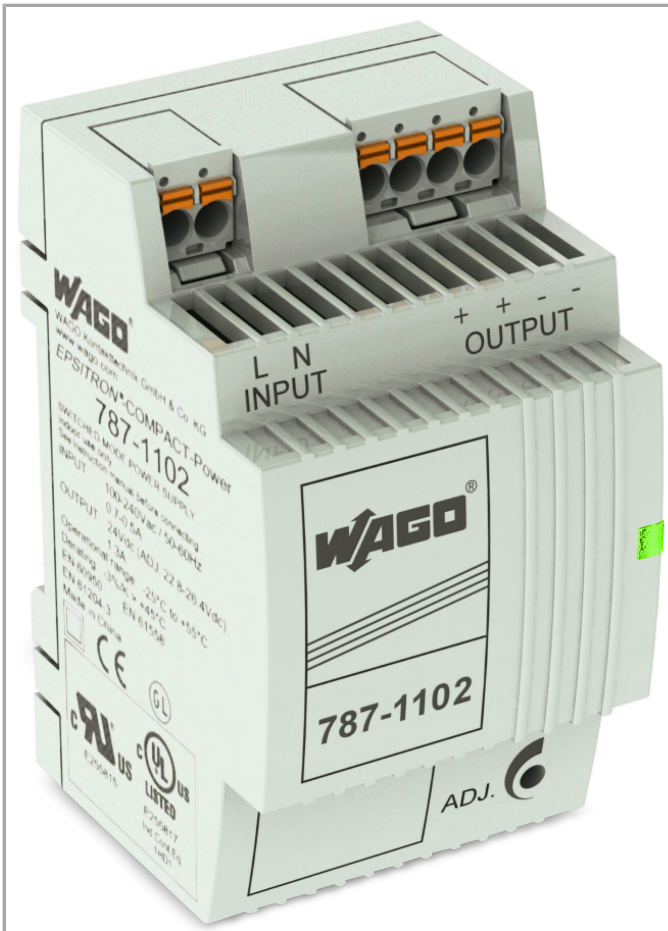
**Data sheet | Item number: 787-1102**

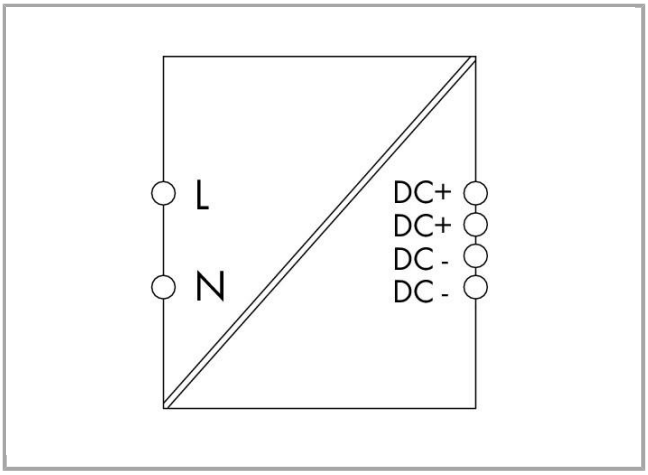
Switched-mode power supply; Compact; 1-phase; 24 VDC output voltage; 1.3 A output current; DC OK signal

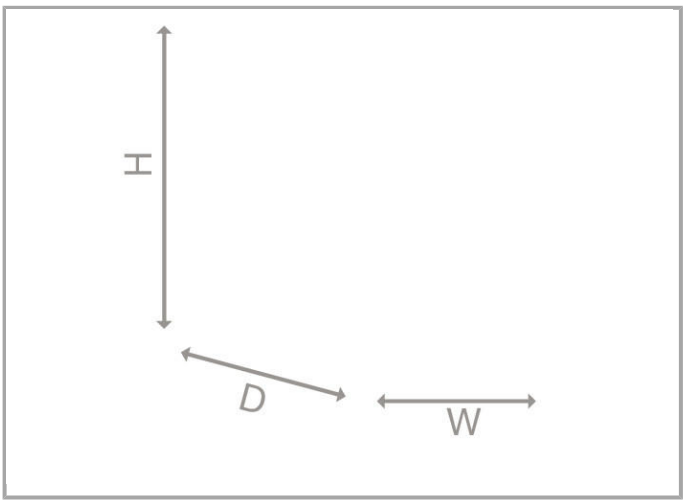
787-1102




RoHS ✓ Compliant

BOMcheck.net






## Item description

**Features:**

- Switched-mode power supply
- Stepped profile for installation in standard distribution boards
- Pluggable picoMAX® connection technology (tool-free)
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per EN 60950-1/UL 60950-1; PELV per EN 60204

## Data

### Technical Data

### Input

| | |
|---|---|
| Phases | 1 |
| Nominal input voltage $U_{i\,nom}$ | AC 100 … 240 V |
| Input voltage range | AC 85 … 264 V; DC 120 … 373 V |
| Input voltage derating | $I_o$ ≤ 1 A (< 100 VAC) |
| Nominal mains frequency range | 44 … 66 Hz; 0 Hz |
| Input current $I_i$ | ≤ 0.5 A (230 VAC); ≤ 0.7 A (110 VAC) |
| Discharge current | ≤ 1 mA |
| Inrush current | ≤ 30 A (NTC) |
| Power factor correction (PFC) | Passive |
| Mains failure hold-up time | ≥ 80 ms (230 VAC); ≥ 10 ms (110 VAC) |

### Output

| | |
|---|---|
| Nominal output voltage $U_{o\,nom}$ | DC 24 V (SELV) |

| | |
|---|---|
| Output voltage range | DC 22.8 … 26.4 V (adjustable) |
| Factory preset | DC 24 V |
| Nominal output current $I_{o\ nom}$ | 1.3 A (24 VDC); 0.9 A (in any mounting position) |
| Nominal output power | 31 W |
| Adjustment accuracy | ≤ 2 % |
| Residual ripple | ≤ 100 mV (peak-to-peak) |
| Current limitation | 1.1 x $I_{o\ nom}$ typ. |
| Overload behavior | Constant current |

## Signaling and communication

| | |
|---|---|
| Signaling | 1 x LED operation status indicator (green) |
| Operation status indicator | LED green ($U_o$) |

## Efficiency/Power losses:

| | |
|---|---|
| Power loss $P_v$ | ≤ 2.6 W (230 VAC; no load); ≤ 7 W (230 VAC; nominal load) |
| Max. power loss $P_{v\ max.}$ | 7.3 W (100 VAC / 24 VDC; 1.3 A) |
| Efficiency | 82 % |

## Fuse protection:

| | |
|---|---|
| Internal fuse | T 2 A / 250 VAC |
| External fuse (required) | an external DC fuse required for DC input voltage |
| External fuse (recommended) | Circuit breakers 6 A, 10 A, 16 A, characteristic: B or C |

## Safety and protection:

| | |
|---|---|
| Insulation voltage (PRI-SEC) | 4.242 kV DC |
| Protection class | II |
| Protection class | IP20 (per EN 60529) |
| Feedback voltage | ≤ DC 30 V |
| Overvoltage category | II |
| Transient protection, primary | Varistor |
| Overvoltage protection, secondary | ≤ 40 VDC (in case of an error) |
| Short circuit protection | Yes |
| No-load proof | Yes |
| Parallel operation | Yes |
| Series connection | Yes |
| MTBF | > 500,000 h (per IEC 61709) |

## Connection data

| | |
|---|---|
| Connection type (1) | Input/Output |
| Connection technology | Push-in CAGE CLAMP® |
| WAGO terminal | 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 inch |

## Geometrical Data

| | |
|---|---|
| Width | 54 mm / 2.126 inch |
| Height | 89 mm / 3.504 inch |
| Depth | 59 mm / 2.323 inch |
| Length from upper-edge of DIN-35 rail | 55 mm / 2.165 inch |

## Mechanical data

| | |
|---|---|
| Type of mounting | DIN-35 rail (EN 60715) |

## Material Data

| | |
|---|---|
| Flammability class per UL94 | V0 |
| Weight | 170 g |

## Environmental Requirements

| | |
|---|---|
| Surrounding air (operating) temperature | -25 … 60 °C (Device start at -40 °C type-tested) |
| Surrounding air (storage) temperature | -25 … 80 °C |
| Surrounding air (operating) temperature for UL | -25 … 55 °C |
| Relative humidity | 5 … 96 % (no condensation permissible) |
| Derating | -3 %/K (> 45 °C) |
| Pollution degree | 2 |
| Climatic category | 3K3 (per EN 60721) |

## Standards and specifications

| | |
|---|---|
| Conformity marking | 1 |
| Standards/specifications | EN 60950-1; EN 61204-3; UL 60950-1; UL 508; DNV GL |

## Commercial data

| | |
|---|---|
| Country of origin | DE |
| GTIN | 4055143421997 |

| | |
|---|---|
| Customs Tariff No. | 85044082900 |

## Approvals / Certificates

### Ship Approvals

| Logo | Approval | Additional Approval Text | Certificate name |
|---|---|---|---|
| | **DNV GL**<br>Det Norske Veritas, Germanischer Lloyd | - | TAA00000KT |

### UL-Approvals

| Logo | Approval | Additional Approval Text | Certificate name |
|---|---|---|---|
| | **UL**<br>Underwriters Laboratories Inc. | UL 508 | E255817 |
| | **UL**<br>Underwriters Laboratories Inc. | UL 60950-1 | E255815 |

## Compatible products

### Strain relief plate

| | | |
|---|---|---|
| | **Item no.: 2092-1600**<br>Gripping plate | 2092-1600 |
| | **Item no.: 2092-1601**<br>Gripping plate | 2092-1601 |

### tools

| | | |
|---|---|---|
| | **Item no.: 210-720**<br>Operating tool with partially insulated shaft; Type 2, blade (3.5 x 0.5) mm | 210-720 |
| | **Item no.: 210-769**<br>SCREWDRIVER | 210-769 |

### ferrule

| | | |
|---|---|---|
| | **Item no.: 216-201**<br>Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated | 216-201 |
| | **Item no.: 216-202**<br>Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated | 216-202 |
| | **Item no.: 216-203**<br>Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated | 216-203 |

| | | |
|---|---|---|
|  | **Item no.: 216-204**<br>Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated | 216-204 |
| | **Item no.: 216-301**<br>Ferrule; Sleeve for 0.25 mm² / AWG 24; insulated; electro-tin plated | 216-301 |
|  | **Item no.: 216-302**<br>Ferrule; Sleeve for 0.34 mm² / 22 AWG; insulated; electro-tin plated | 216-302 |

## Downloads

### Documentation

**Bid Text**

| | | | |
|---|---|---|---|
| 787-1102 | | doc<br>36.4 kB | Download |

**Instruction Leaflet**

| | | | |
|---|---|---|---|
| Primär getaktete Stromversorgungen EPSITRON COMPACT Power | | pdf<br>325.8 kB | Download |

**Additional Information**

| | | | |
|---|---|---|---|
| Disposal; Electrical and electronic equipment, Packaging | V 1.0.0 | pdf<br>265.8 kB | Download |

## Product family

**EPSITRON COMPACT Power**

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

Show all products from the family

Subject to changes.