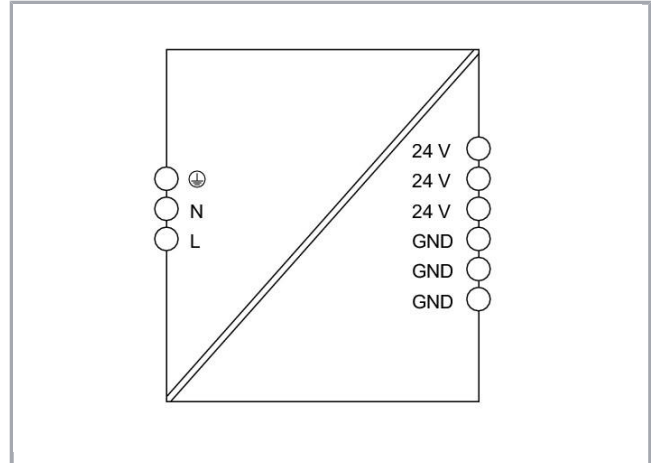


Data sheet | Item number: 787-2850

Switched-mode power supply; Compact; 1-phase; 24 VDC output voltage;
1.25 A output current

www.wago.com/787-2850



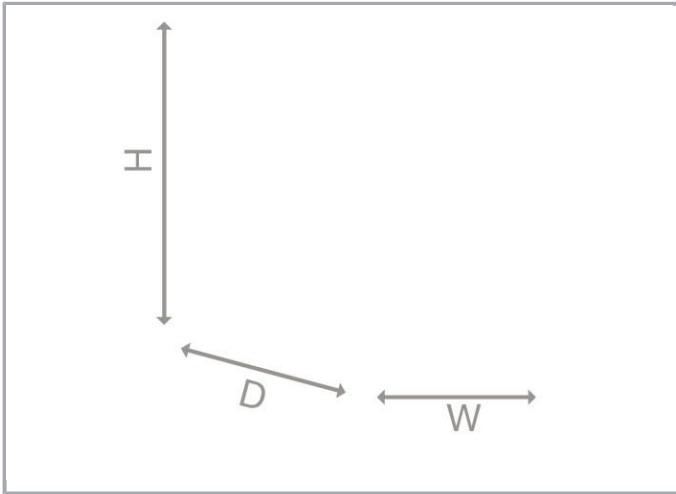
RoHS Compliant

BOMcheck.net

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

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Item description

Features:

- Stepped profile for installation in standard distribution boards
- Connection technology with Push-in CAGE CLAMP®
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per EN/UL 61010-1 or EU/UL 61010-2-201

Data

Technical Data

Input

| | |
|--|--|
| Phases | 1 |
| Nominal input voltage $U_{i\text{ nom}}$ | AC 110 ... 240 V |
| Input voltage range | AC 100 ... 264 V |
| Nominal mains frequency range | 47 ... 63 Hz |
| Input current I_i | $\leq 0,55$ A (110 VAC); $\leq 0,33$ A (240 VAC) |
| Inrush current | ≤ 24 A (NTC) |
| Mains failure hold-up time | ≥ 95 ms (230 VAC) |

Output

| | |
|---|-----------------|
| Nominal output voltage $U_{o\text{ nom}}$ | DC 24 V (SELV) |
| Nominal output current $I_{o\text{ nom}}$ | 1,25 A (24 VDC) |
| Nominal output power | 30 W |

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



| | |
|---------------------|------------------------|
| Adjustment accuracy | ≤ 2 % |
| Residual ripple | ≤ 60 mV (peak-to-peak) |
| Overload behavior | Hiccup |

Signaling and communication

| | |
|----------------------------|-----------------------------------|
| Signaling | 1 x Status indication LED (green) |
| Operation status indicator | Green LED (U _o) |

Efficiency/Power losses:

| | |
|-------------------------------------|---|
| Power loss P _l | ≤ 0,5 W (230 VAC; No load); ≤ 4 W (230 VAC; Nominal load) |
| Max. power loss P _{v max.} | 5 W (110 VAC / 24 VDC; 1.35 A) |
| Efficiency (typ.) | 88 % |

Fuse protection:

| | |
|-----------------------------|--|
| Internal fuse | T 1.25 A / 250 VAC |
| External fuse (recommended) | Circuit breaker: 16 A; Tripping characteristic: B or C |

Safety and protection:

| | |
|-----------------------------------|--|
| Insulation voltage (PRI-SEC) | DC 3,5 kV |
| Isolation voltage (PRI-GND) | DC 1,4 kV |
| Insulation voltage (SEC-GND) | DC 0,5 kV |
| Protection class | I |
| Protection class | IP20 (per EN 60529) |
| Feedback voltage | ≤ DC 32 V |
| Overvoltage category | III |
| Overvoltage protection, secondary | ≤ 32 VDC (in the event of a fault) |
| Short circuit protection | Yes |
| No-load proof | Yes |
| Parallel operation | Yes |
| Series connection | Yes |
| MTBF | > 2,500,000 h (per EN/IEC 61709 at +40 °C) |

Connection data

| | |
|-----------------------|---------------------|
| Connection type (1) | Input |
| Connection technology | Push-in CAGE CLAMP® |

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



| | |
|-----------------------------|--|
| WAGO terminal | WAGO 804 Series |
| Solid conductor | 0,25 ... 2,5 mm ² / 20 ... 12 AWG |
| Fine-stranded conductor | 0,25 ... 2,5 mm ² / 22 ... 12 AWG |
| Strip length | 10 ... 11 mm / 0.39 ... 0.43 inch |
| Connection type (2) | Output |
| Connection technology 2 | Push-in CAGE CLAMP® |
| WAGO terminal 2 | WAGO 805 Series |
| Solid conductor (2) | 0,2 ... 1,5 mm ² / 24 ... 16 AWG |
| Fine-stranded conductor (2) | 0,2 ... 1,5 mm ² / 24 ... 16 AWG |
| Strip length (2) | 9 ... 10 mm / 0.35 ... 0.39 inch |

Geometrical Data

| | |
|---------------------------------------|--------------------|
| Width | 36 mm / 1.417 inch |
| Height | 90 mm / 3.543 inch |
| Depth | 62 mm / 2.441 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 | 120 g |

Environmental Requirements

| | |
|---|--|
| Surrounding air (operating) temperature | -20 ... 70 °C (Nominal mounting position; -20 ... +55 °C (in any mounting position)) |
| Surrounding air (storage) temperature | -40 ... 85 °C |
| Relative humidity | 5 ... 96 % (no condensation permissible) |
| Derating | -1.7 %/K (> 55 °C) |
| Pollution degree | 2 |
| Climatic category | 3K3 (per EN 60721) |

Standards and specifications

| | |
|--------------------------|--|
| Conformity marking | CE |
| Standards/specifications | EN 61204-3; EN 61010-1; EN 61010-2-201; cULus 61010-1; cULus |

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61010-2-201; DNV GL

Commercial data


| | |
|--------------------|---------------|
| Packaging type | BOX |
| Country of origin | DE |
| GTIN | 4055143810906 |
| Customs Tariff No. | 85044082900 |

Approvals / Certificates


Country specific Approvals

| Logo | Approval | Additional Approval Text | Certificate name |
|--|-----------------------|--------------------------------|----------------------------------|
|  | EAC ROSTEST-Moskau | TP TC 004/2011, TP TC 020/2011 | RU_C-DE. AJA46.B. 04525_19 |

Ship Approvals

| Logo | Approval | Additional Approval Text | Certificate name |
|--|--|--------------------------|------------------|
|  | DNV GL Det Norske Veritas, Germanischer Lloyd | - | TAA00001ZJ |

UL-Approvals

| Logo | Approval | Additional Approval Text | Certificate name |
|--|--------------------------------------|--------------------------|------------------|
|  | UL Underwriters Laboratories Inc. | UL 61010-2-201 | E255817 |

Counterpart

Compatible products

tools



Item no.: 210-720

Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft

www.wago.com/210-720

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Downloads

Documentation

Instruction Leaflet

| | | | |
|---|--|---------------|----------|
| Power Supply Compact DC 24 V, 1,25 A, SELV | | pdf 1.8 MB | Download |
|---|--|---------------|----------|

Additional Information

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

Installation Notes

Product family

Compact

[Show all products from the family](#)

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