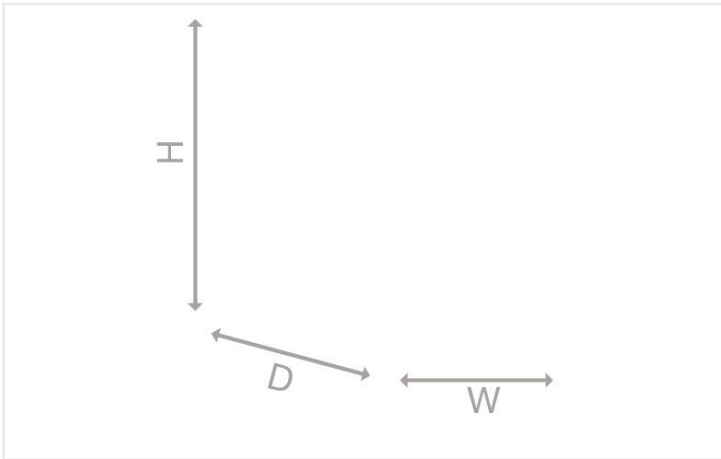
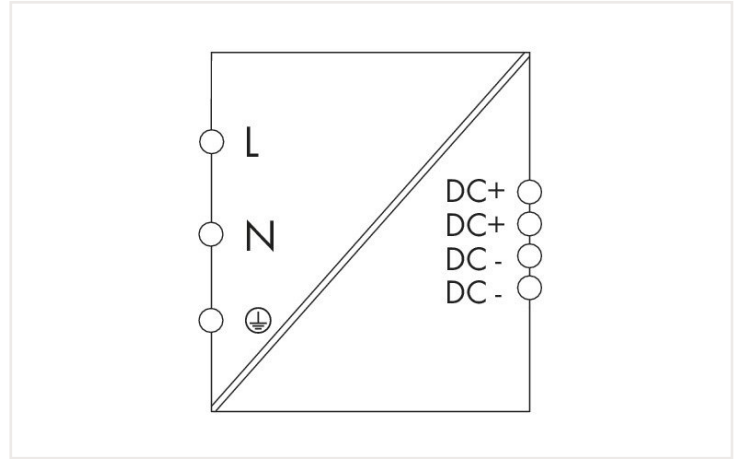


Data sheet | Item number: 787-732

Power supply; Eco; 1-phase; 24 VDC output voltage; 10 A output current; DC-OK LED; 4,00 mm²

<https://www.wago.com/787-732>



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 UL 60950-1; PELV per EN 60204

| Technical data | | |
|-------------------------------------|--|--|
| Input | | |
| Phases | 1 | |
| Nominal input voltage $U_{i, nom}$ | 1 x AC 110 ... 240 V | |
| Input voltage range | 1 x AC 85 ... 264 V; DC 90 ... 373 V | |
| Nominal mains frequency range | 47 ... 63 Hz; 0 Hz | |
| Input current I_i | ≤ 1.5 A (230 VAC); ≤ 3 A (115 VAC) | |
| Discharge current | ≤ 3.5 mA | |
| Inrush current | ≤ 30 A | |
| Power factor | ≥ 0.94 (230 VAC); ≥ 0.98 (115 VAC) | |
| Power factor correction (PFC) | active | |
| Mains failure hold-up time | ≥ 20 ms (230 VAC) | |
| Output | | |
| Nominal output voltage $U_{o, nom}$ | DC 24 V (SELV) | |
| Output voltage range | DC 22 ... 28 V (adjustable) | |
| Default setting | DC 24 V | |
| Nominal output current $I_{o, nom}$ | 10 A (24 VDC) | |
| Nominal output power | 240 W | |
| Deviation | ≤ 1 % | |
| Residual ripple | ≤ 100 mV (Peak-to-peak) | |
| Overload behavior | Constant power (in overload range: 1.15 ... 1.4 x $I_{o, nom}$); Shutdown and automatic restart in the event of a short circuit | |

Signaling and communication

| | |
|----------------------------|---|
| Signaling | 1 x LED DC OK (green) 1 x Overload LED (red) |
| Operation status indicator | Green LED (24 VDC OK) Red LED (overload) |

Efficiency/power losses

| | |
|--------------------------------|---------------------------------------|
| Power loss P_I | ≤ 37.5 W (230 VAC; Nominal load) |
| Power loss (max.) $P_{I(max)}$ | 53 W (110 VAC / 24 VDC; 11 A) |
| Efficiency (typ.) | 86 % (230 VAC) |

Circuit protection

| | |
|---------------------------|--|
| Internal fuse | F 5 A / 250 VAC |
| Required backup fusing | An external DC fuse is required for the DC input voltage. |
| Recommended backup fusing | Circuit breaker: 10 A, 16 A; Tripping characteristic: B or C |

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 |
| Note on protection type | per EN 60529 |
| Resistance to reverse feed | \leq DC 28 V |
| Overvoltage category | II |
| Pollution degree | 2 |
| Transient suppression (primary) | Varistor |
| Short-circuit-protected | Yes |
| Open-circuit-proof | Yes |
| Parallel operation | Yes |
| Series operation | Yes |
| MTBF | 480,000 h (per IEC 61709) |

Connection data

| | |
|--------------------------------|--|
| Connection type 1 | Input/output |
| Connection technology | CAGE CLAMP® |
| WAGO connector | WAGO 745 Series |
| Solid conductor | 0.08 ... 4 mm ² / 28 ... 12 AWG |
| Fine-stranded conductor | 0.08 ... 4 mm ² / 28 ... 12 AWG |
| Strip length | 8 ... 9 mm / 0.31 ... 0.35 inch |
| Note (conductor cross-section) | 12 AWG: THHN, THWN |

Physical data

| | |
|-----------------------------------|---------------------|
| Width | 110 mm / 4.331 inch |
| Height | 92 mm / 3.622 inch |
| Depth from upper-edge of DIN-rail | 136 mm / 5.354 inch |

Mechanical data

| | |
|---------------|-------------|
| Mounting type | DIN-35 rail |
|---------------|-------------|

Material data

| | |
|-----------|---------|
| Fire load | 10.1 MJ |
| Weight | 1200 g |

Environmental requirements

| | |
|---------------------------------------|-------------------------------------|
| Ambient temperature (operation) | -10 ... +70 °C |
| Surrounding air temperature (storage) | -25 ... +85 °C |
| Relative humidity | ≤ 95% (no condensation permissible) |
| Derating | -2.33 %/K (|

Standards and specifications

| | |
|--------------------------|--|
| Conformity marking | CE |
| Standards/specifications | EN 62368-1 EN 61204-3 cURus 60950-1 cULus 508 ANSI/ISA 12.12.01 (Class I Div. 2) ATEX IEC Ex |

Commercial data

| | |
|-------------------------------------|---------------------------|
| Product Group | 6 (Interface Electronics) |
| eCl@ss 10.0 | 27-04-07-01 |
| eCl@ss 9.0 | 27-04-07-01 |
| ETIM 7.0 | EC002540 |
| ETIM 6.0 | EC002540 |
| PU (SPU) | 1 Stück |
| Packaging type | Box |
| Country of origin VKOrg Germany | CN |
| GTIN | 4045454908140 |
| Customs tariff number VKOrg Germany | 85044082900 |

Approvals / Certificates

Ex-Approvals



| Approval | Standard | Certificate name |
|---|-------------------|--|
| ATEX UL International Demko A/ S | EN 60079-0 | 12 ATEX 0931267 X |
| CCCEX CQST/CNEX | CNCA-C23-01 | 2020312303000383 (Ex nA nC IIC T3 Gc) |
| INMETRO TÜV Rheinland do Brasil Ltda. | IEC 60079 | TÜV20.1339X |
| UL UL International Germany GmbH (HAZARDOUS LO- CATIONS) | ANSI/ISA 12.12.01 | E198726 Section 5 |

UL-Approvals



| Approval | Standard | Certificate name |
|---|-------------|--------------------|
| UL UL International Germany GmbH | IEC 60079-0 | IECEX UL 10.0006 X |
| UL Underwriters Laboratories Inc. | UL 60950-1 | E255815 |
| UL Underwriters Laboratories Inc. | UL 508 | E255817 |

Downloads

Environmental Product Compliance

| | |
|--|-------------------|
| Compliance Search | |
| Environmental Product Compliance 787-732 | ↓ |

Documentation

| | | | |
|--|---------|------------------|-------------------|
| Additional Information | | | |
| Disposal; Electrical and electronic equipment, Packaging | V 1.0.0 | pdf 259.56 KB | ↓ |

| | | | |
|-----------------|------------|------------------|-------------------|
| Bid Text | | | |
| 787-732 | 12.07.2019 | xml 6.86 KB | ↓ |
| 787-732 | 17.07.2019 | docx 20.91 KB | ↓ |

| | | | |
|--|------------------------|------------------|-------------------|
| Instruction Leaflet | | | |
| Primary Switch Mode Power Supply ECO-Power | V 2.2.10 21.12.2020 | pdf 179.72 KB | ↓ |

CAD/CAE-Data

| | |
|----------------------|-------------------|
| CAD data | |
| 2D/3D Models 787-732 | ↓ |

| | |
|---------------------------|-------------------|
| CAE data | |
| EPLAN Data Portal 787-732 | ↓ |
| WSCAD Universe 787-732 | ↓ |
| ZUKEN Portal 787-732 | ↓ |

1 Compatible products

1.1 Optional accessories

1.1.1 Ferrule

1.1.1.1 Ferrule

| | | | |
|---|---|---|---|
| | | | |
| <p>Item no.: 216-321 Ferrule; Sleeve for 0.25 mm² / AWG 24; insulated; electro-tin plated; yellow</p> | <p>Item no.: 216-322 Ferrule; Sleeve for 0.34 mm² / 22 AWG; insulated; electro-tin plated; light turquoise</p> | <p>Item no.: 216-241 Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; white</p> | <p>Item no.: 216-221 Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; white</p> |
| | | | |
| <p>Item no.: 216-242 Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray</p> | <p>Item no.: 216-262 Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray</p> | <p>Item no.: 216-222 Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; gray</p> | <p>Item no.: 216-243 Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red</p> |

1.1.1.1 Ferrule

**Item no.: 216-263**

Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red

Item no.: 216-223

Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; red

Item no.: 216-224

Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; black

Item no.: 216-244

Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black

**Item no.: 216-264**

Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black

Item no.: 216-284

Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black

Item no.: 216-246

Ferrule; Sleeve for 2.5 mm² / AWG 14; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; blue

Item no.: 216-266

Ferrule; Sleeve for 2.5 mm² / AWG 14; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; blue

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