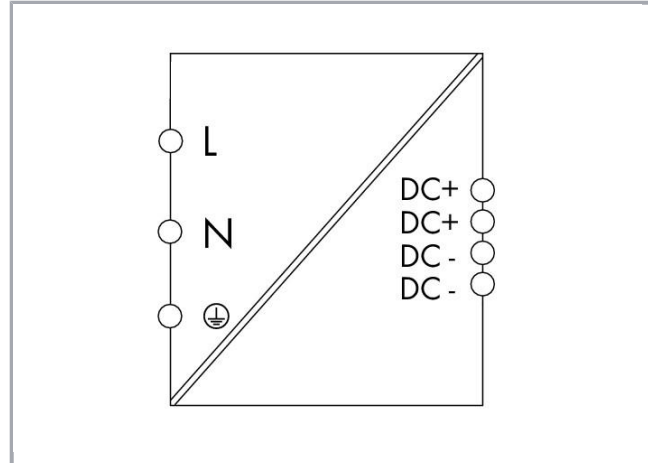


Data sheet | Item number: 787-1722

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

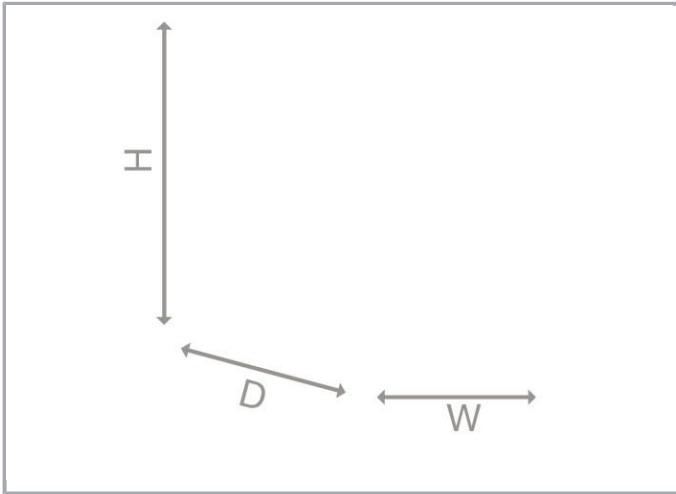
www.wago.com/787-1722



Subject to changes.

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Do you have any questions about our products?
We are always happy to take your call at +49 (571) 887-44222.



Item description

Features:

- Switched-mode power supply
- Natural convection cooling when horizontally mounted
- Enclosed 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

Data

Technical Data

Input

| | |
|---|--|
| Phases | 1 |
| Nominal input voltage $U_{i\text{nom}}$ | AC 100 ... 240 V |
| Input voltage range | 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) |

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Output

| | |
|-------------------------------------|---|
| Nominal output voltage $U_{o\ nom}$ | DC 24 V (SELV) |
| Output voltage range | DC 22 ... 26 V (adjustable) |
| Factory preset | DC 24 V |
| Nominal output current $I_{o\ nom}$ | 5 A (24 VDC; 110 ... 240 VAC); 4 A (24 VDC; 100 ... 240 VAC) |
| Nominal output power | 120 W |
| Adjustment accuracy | $\leq 1\ %$ |
| Residual ripple | $\leq 200\ mV$ (peak-to-peak) |
| Overload behavior | Constant power (in overload range: $1.05 \dots 1.4 \times I_{o\ nom}$); shutdown and automatic restart in the event of a short circuit |

Signaling and communication

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

Efficiency/Power losses:

| | |
|-------------------|-----------------------|
| Efficiency (typ.) | 88 % (230 VAC; 5 ADC) |
|-------------------|-----------------------|

Fuse protection:

| | |
|-----------------------------|---|
| Internal fuse | F 2.5 A / 250 VAC |
| External fuse (required) | an external DC fuse required for DC input voltage |
| External fuse (recommended) | Circuit breakers B6, B10 |

Safety and protection:

| | |
|-------------------------------|---------------------|
| Insulation voltage (PRI-SEC) | DC 4.242 kV |
| Isolation voltage (PRI-GND) | DC 2.2 kV |
| Insulation voltage (SEC-GND) | DC 0.7 kV |
| Protection class | I |
| Protection class | IP20 (per EN 60529) |
| Feedback voltage | $\leq DC\ 30\ V$ |
| Overvoltage category | II |
| Transient protection, primary | Varistor |
| Short circuit protection | Yes |
| No-load proof | Yes |
| Parallel operation | Yes |

Subject to changes.



| | |
|-------------------|-------------------------------------|
| Series connection | 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 terminal | 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 inch |
| Note (conductor cross-section) | 12 AWG: THHN, THWN |

Geometrical Data

| | |
|---------------------------------------|---------------------|
| Width | 60 mm / 2.362 inch |
| Height | 130 mm / 5.112 inch |
| Length from upper-edge of DIN-35 rail | 99 mm / 3.898 inch |

Mechanical data

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

Material Data

| | |
|--------|-------|
| Weight | 550 g |
|--------|-------|

Environmental Requirements

| | |
|---|---|
| Surrounding air (operating) temperature | -20 ... 60 °C |
| Surrounding air (storage) temperature | -25 ... 75 °C |
| Relative humidity | 10 ... 95 % (no condensation permissible) |
| Derating | -3 %/K (> 45 °C) |
| Pollution degree | 2 |
| 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 |

Subject to changes.

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Commercial data

| | |
|--------------------|---------------|
| Packaging type | BOX |
| Country of origin | CN |
| GTIN | 4055143372442 |
| Customs Tariff No. | 85044082900 |



Approvals / Certificates

UL-Approvals



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

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 |
|  | Item no.: 210-769 SCREWDRIVER; green | www.wago.com/210-769 |




Marking accessories

| | | |
|--|---|--|
|  | Item no.: 210-831 Marking strips; on reel; 2.3 mm wide; plain; Self-adhesive; white | www.wago.com/210-831 |
|  | Item no.: 210-832 Marking strips; on reel; 3 mm wide; plain; Self-adhesive; white | www.wago.com/210-832 |

ferrule

| | | |
|---|--|--|
|  | Item no.: 216-201 Ferrule; Sleeve for 0.5 mm ² / 20 AWG; insulated; electro-tin plated; white | www.wago.com/216-201 |
|  | Item no.: 216-202 Ferrule; Sleeve for 0.75 mm ² / 18 AWG; insulated; electro-tin plated; gray | www.wago.com/216-202 |

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| | | |
|---|--|--|
|  | Item no.: 216-203 Ferrule; Sleeve for 1 mm ² / AWG 18; insulated; electro-tin plated; red | www.wago.com/216-203 |
|  | Item no.: 216-204 Ferrule; Sleeve for 1.5 mm ² / AWG 16; insulated; electro-tin plated; black | www.wago.com/216-204 |
|  | Item no.: 216-221 Ferrule; Sleeve for 0.5 mm ² / 20 AWG; insulated; electro-tin plated; white | www.wago.com/216-221 |
|  | Item no.: 216-222 Ferrule; Sleeve for 0.75 mm ² / 18 AWG; insulated; electro-tin plated; gray | www.wago.com/216-222 |
|  | Item no.: 216-223 Ferrule; Sleeve for 1 mm ² / AWG 18; insulated; electro-tin plated; red | www.wago.com/216-223 |
|  | Item no.: 216-224 Ferrule; Sleeve for 1.5 mm ² / AWG 16; insulated; electro-tin plated; black | www.wago.com/216-224 |
|  | Item no.: 216-241 Ferrule; Sleeve for 0.5 mm ² / 20 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; white | www.wago.com/216-241 |
|  | Item no.: 216-242 Ferrule; Sleeve for 0.75 mm ² / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray | www.wago.com/216-242 |
|  | Item no.: 216-243 Ferrule; Sleeve for 1 mm ² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red | www.wago.com/216-243 |
|  | Item no.: 216-244 Ferrule; Sleeve for 1.5 mm ² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black | www.wago.com/216-244 |
|  | Item no.: 216-262 Ferrule; Sleeve for 0.75 mm ² / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray | www.wago.com/216-262 |
|  | Item no.: 216-263 Ferrule; Sleeve for 1 mm ² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red | www.wago.com/216-263 |
|  | Item no.: 216-264 Ferrule; Sleeve for 1.5 mm ² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black | www.wago.com/216-264 |
|  | Item no.: 216-284 Ferrule; Sleeve for 1.5 mm ² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black | www.wago.com/216-284 |
| | Item no.: 216-301 Ferrule; Sleeve for 0.25 mm ² / AWG 24; insulated; electro-tin plated; yellow | www.wago.com/216-301 |
|  | Item no.: 216-302 Ferrule; Sleeve for 0.34 mm ² / 22 AWG; insulated; electro-tin plated; green | www.wago.com/216-302 |
| | Item no.: 216-321 Ferrule; Sleeve for 0.25 mm ² / AWG 24; insulated; electro-tin plated; yellow | www.wago.com/216-321 |

Subject to changes.



Item no.: 216-322

Ferrule; Sleeve for 0.34 mm² / 22 AWG; insulated; electro-tin plated; green

www.wago.com/216-322

Downloads

Documentation

Instruction Leaflet

| | | |
|--|-----------------|----------|
| EPSITRON ECO Power Switched-Mode Power Supplies 24 VDC, 5 A | pdf 284.7 kB | Download |
|--|-----------------|----------|

Additional Information

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

CAD/CAE-Data

CAD data

| | | |
|-----------------------|-----|----------|
| 2D/3D Models 787-1722 | URL | Download |
|-----------------------|-----|----------|

CAE data

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|----------------------------|----------|
| EPLAN Data Portal 787-1722 | Download |
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| WSCAD Universe 787-1722 | Download |
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Installation Notes

Product family

Eco

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