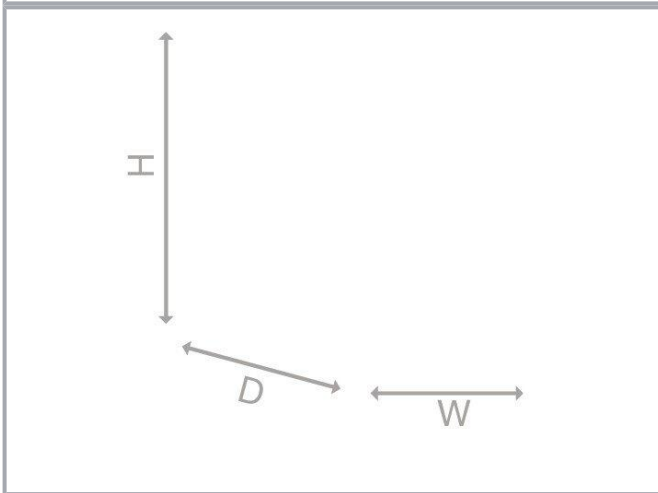
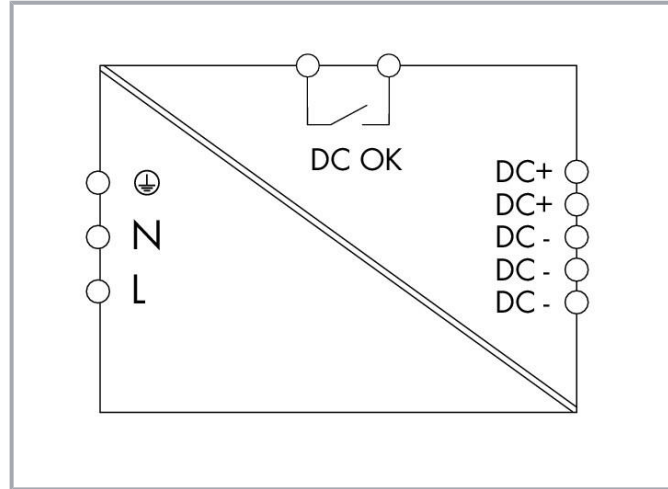


Data sheet | Item number: 787-734

Switched-mode power supply; Eco; 1-phase; 24 VDC output voltage; 20 A output current; DC OK contact; 6,00 mm²



www.wago.com/787-734



Item description

Features:

- Natural convection cooling when horizontally mounted
- Encapsulated for use in control cabinets
- Fast and tool-free termination via lever-actuated PCB terminal blocks

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

WAGO GmbH & Co. KG
Hansastr. 27
32423 Minden
Phone: +49571 887-0 | Fax: +49571 887-169
Email: info.de@wago.com | Web: www.wago.com

Do you have any questions about our products?
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- Bounce-free switching signal (DC OK) via optocoupler
- Parallel operation
- Electrically isolated output voltage (SELV) per UL 60950-1; PELV per EN 60204

Data

Technical data

Input

| | |
|--|--|
| Phases | 1 |
| Nominal input voltage $U_{i\text{ nom}}$ | 1 x AC 110 ... 240 V |
| Input voltage range | 1 x AC 85 ... 264 V; DC 130 ... 373 V |
| Nominal mains frequency range | 47 ... 63 Hz; 0 Hz |
| Input current I_i | ≤ 3 A (230 VAC); ≤ 6.3 A (115 VAC) |
| 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 $U_{o\text{ nom}}$ | DC 24 V (SELV) |
| Output voltage range | DC 22 ... 28 V (adjustable) |
| Nominal output current $I_{o\text{ nom}}$ | 20 A (24 VDC) |
| Nominal output power | 480 W |
| Residual ripple | ≤ 100 mV (peak-to-peak) |
| Overload behavior | Constant power (in overload range: $1.15 \dots 1.4 \times I_{o\text{ nom}}$); Shutdown and automatic restart in the event of a short circuit |

Signaling and Communication

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

Efficiency/power losses

| | |
|------------------|-------------------------------------|
| Power loss P_l | ≤ 65 W (230 VAC; nominal load) |
|------------------|-------------------------------------|

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



| | |
|--------------------------------|--------------------------------|
| Power loss (max.) $P_{I(max)}$ | 107 W (110 VAC / 24 VDC; 23 A) |
| Efficiency (typ.) | 90 % |

Circuit protection

| | |
|-----------------------------|--|
| Internal fuse | T 10 A / 250 VAC |
| Backup fusing (required) | An external DC fuse is required for the DC input voltage. |
| Backup fusing (recommended) | Circuit breaker: 10 A, 16 A; Tripping characteristic: B or C |

Safety and protection

| | |
|---------------------------------|-----------------------------|
| Isolation voltage (sec.-PE) | DC 0.7 kV |
| Protection class | I |
| Protection type | IP20; per EN 60529 |
| 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 | > 250,000 h (per IEC 61709) |

Connection data

| | |
|---------------------------|---|
| Connection type 1 | Input/Signaling |
| Connection technology | CAGE CLAMP® |
| WAGO connector | WAGO 2706 Series |
| Solid conductor | 0.5 ... 6 mm ² / 20 ... 10 AWG |
| Fine-stranded conductor | 0.5 ... 6 mm ² / 20 ... 10 AWG |
| Strip length | 11 ... 12 mm / 0.43 ... 0.47 inches |
| Connection type 2 | Output |
| Connection technology | CAGE CLAMP® |
| WAGO connector 2 | WAGO 2716 Series |
| Solid conductor 2 | 1.5 ... 16 mm ² / 16 ... 6 AWG |
| Fine-stranded conductor 2 | 1.5 ... 16 mm ² / 16 ... 6 AWG |
| Strip length 2 | 12 ... 13 mm / 0.47 ... 0.51 inches |

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Physical data

| | |
|-----------------------------------|-----------------------|
| Width | 115 mm / 4.528 inches |
| Height | 136 mm / 5.354 inches |
| Depth from upper-edge of DIN-rail | 144 mm / 5.669 inches |

Mechanical Data

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

Material Data

| | |
|--------|--------|
| Weight | 2120 g |
|--------|--------|

Environmental requirements

| | |
|---|-----------------------------------|
| Ambient temperature (operation at U_N) | -25 ... +70 °C |
| Surrounding air temperature (storage) | -25 ... +85 °C |
| Relative humidity | 95% (no condensation permissible) |
| Derating | See instruction manual |

Standards and specifications

| | |
|--------------------------|--|
| Conformity marking | CE |
| Standards/specifications | EN 62368-1 EN 61204-3 EN 61000-6-2 EN 61000-6-3 UL 60950-1 UL 508 |

Commercial data




| | |
|-------------------|--------------------------|
| Product Group | 6 (INTERFACE ELECTRONIC) |
| 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 |

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

| | |
|-----------------------|---------------|
| GTIN | 4050821495291 |
| Customs tariff number | 85044083900 |

Approvals / Certificates

General approvals

| Logo | Approval | Additional Approval Text | Certificate name |
|--|--|--------------------------------|-----------------------------|
|  | EAC Brjansker Zertifizierungsstelle | TP TC 004/2011, TP TC 020/2011 | EAC RU C-DE.AM02.B.00089_19 |
|  | UL Underwriters Laboratories Inc. | UL 60950-1 | E255815 |
|  | UL Underwriters Laboratories Inc. | UL 508 | E255817 |

Optional accessories

Tool

Operating tool



Item no.: 210-769
SCREWDRIVER; green

www.wago.com/210-769

Downloads

Documentation

Bid Text

| | | | |
|-------------------------|--------------|-----------------|----------|
| 787-734 X81 - Datei | Jul 12, 2019 | xml 7.2 kB | Download |
| 787-734 docx - Datei | Jul 12, 2019 | docx 21.8 kB | Download |

Instruction Leaflet

| | | | |
|---|-----------------------|-----------------|----------|
| Primary Switch Mode Power Supply ECO-Power DC 24 V, 20 A | V 1.6 Dec 21, 2020 | pdf 379.8 kB | Download |
|---|-----------------------|-----------------|----------|

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



Additional Information

| | | | |
|---|--------------|--------|----------|
| Disposal and Recycling | V 1.1.0 | pdf | Download |
| Electrical and electronic equipment, Batteries, Packaging | Aug 18, 2022 | 2.2 MB | |

CAD/CAE-Data

CAD data

| | | |
|----------------------|-----|----------|
| 2D/3D Models 787-734 | URL | Download |
|----------------------|-----|----------|

CAE data

| | | |
|----------------------|-----|----------|
| ZUKEN Portal 787-734 | URL | Download |
|----------------------|-----|----------|

| | | |
|---------------------------|-----|----------|
| EPLAN Data Portal 787-734 | URL | Download |
|---------------------------|-----|----------|

| | | |
|------------------------|-----|----------|
| WSCAD Universe 787-734 | URL | Download |
|------------------------|-----|----------|

Environmental Product Compliance

Compliance Search

| | | |
|---|-----|----------|
| Environmental Product Compliance 787-734 | URL | Download |
| Switched-mode power supply; Eco; 1-phase; 24 VDC output voltage; 20 A output current; DC OK contact; 6,00 mm ² | | |

Installation Notes

Product family

EPSITRON ECO Power
[Show all products from the family](#)

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