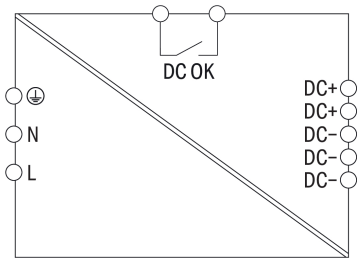
# Data Sheet | Item Number: 787-734

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

https://www.wago.com/787-734

**DISCONTINUED: 30.09.2025**




**Features:**

- Natural convection cooling when horizontally mounted
- Encapsulated for use in control cabinets
- Fast and tool-free termination via lever-actuated PCB terminal blocks
- Bounce-free switching signal (DC OK) via optocoupler
- Parallel 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 110 … 240 VAC |
| Input voltage range | 1 x 85 … 264 VAC; 130 … 373 VDC |
| Nominal mains frequency range | 47 … 63 Hz; 0 Hz |
| Input current $I_i$ | ≤ 3 A (230 VAC); ≤ 6.3 A (115 VAC) |
| Discharge current | ≤ 2 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 $U_{o\,nom}$ | 24 VDC (SELV) |
| Output voltage range | 22 … 28 VDC (adjustable) |
| Default Setting | 24 VDC |
| Nominal output current $I_{o\,nom}$ | 20 A (24 VDC) |
| Nominal output power | 480 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 DC OK LED (green)<br>1 x Overload LED (red)<br>1 x Signal output DC OK (optocoupler as make contact; max. 31.2 V; 20 mA) |
| Operation status indicator | Green LED (24 VDC OK)<br>Red LED (overload) |

### Efficiency/Power Losses

| | |
|---|---|
| Power loss $P_l$ | ≤ 65 W (230 VAC; nominal load) |
| Power loss (max.) $P_{l\,(max.)}$ | 107 W (110 VAC / 24 VDC; 23 A) |
| Efficiency (typ.) | 90 % |


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## Circuit Protection

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

## Safety and protection

| | |
|---|---|
| Isolation voltage (pri.-sec.) | 4.242 kVDC |
| Isolation voltage (pri.-PE) | 2.2 kVDC |
| Isolation voltage (sec.-PE) | 0.7 kVDC |
| Isolation voltage (sec.-signal) | 0.7 kVDC |
| Protection class | I |
| Protection type | IP20; per EN 60529 |
| Resistance to reverse feed | ≤ 29 VDC |
| 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 1

| | |
|---|---|
| Connection type | Input/signaling |
| Connection technology | CAGE CLAMP® |
| WAGO connector | WAGO 2706 Series |
| Solid conductor | 0.5 … 6 mm² / 20 … 10 AWG |
| Fine-stranded conductor | 0.5 … 6 mm² / 20 … 10 AWG |
| Strip length | 11 … 12 mm / 0.43 … 0.47 inches |

### Connection 2

| | |
|---|---|
| Connection type | Output |
| Connection technology | CAGE CLAMP® |
| WAGO connector | WAGO 2716 Series |
| Solid conductor | 1.5 … 16 mm² / 16 … 6 AWG |
| Fine-stranded conductor | 1.5 … 16 mm² / 16 … 6 AWG |
| Strip length | 12 … 13 mm / 0.47 … 0.51 inches |

## 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 |


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## Material data

| | |
|---|---|
| Weight | 74.1 g |

## Environmental requirements

| | |
|---|---|
| Ambient temperature (operation) | -25 … +70 °C |
| Ambient temperature (storage) | -25 … +85 °C |
| Relative humidity | ≤ 95 % (no condensation permissible) |
| Derating | See instruction manual |
| Climatic category | 3K3 (per EN 60721) |

## Standards and Specifications

| | |
|---|---|
| Conformity marking | CE |
| Standards/specifications | EN 62368-1<br>EN 61204-3<br>EN 61000-6-2<br>EN 61000-6-4<br>UL 60950-1<br>UL 508<br>SEMI F47 |

## Commercial data

| | |
|---|---|
| Product Group | 6 (INTERFACE ELECTRONIC) |
| PU (SPU) | 1 pcs |
| Packaging type | Box |
| Country of origin | CN |
| GTIN | 4050821495291 |
| Customs tariff number | 85044083900 |
| End of Sale | 2025-09-30 |
| End of Production | 2025-11-28 |
| End of Delivery | 2025-11-30 |
| End of Service and Repair | 2027-11-30 |

## Product Classification

| | |
|---|---|
| UNSPSC | 39121004 |
| eCl@ss 10.0 | 27-04-07-01 |
| eCl@ss 9.0 | 27-04-07-01 |
| ETIM 9.0 | EC002540 |
| ETIM 10.0 | EC002540 |
| ECCN | NO US CLASSIFICATION |

## Environmental Product Compliance

| | |
|---|---|
| RoHS Compliance Status | Compliant,No Exemption |
| SCIP notification number (Bulgaria) | 981d1d3e-1d07-4a2a-b7ff-f24c0b1a11e1 |
| SCIP notification number (Czech Republic) | 6172285d-1347-46fd-870c-cdc678f691eb |


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## Approvals / Certificates

### General approvals

| Approval | Standard | Certificate Name |
|---|---|---|
| EAC<br>GZO Almaty Standart | TP TC 004/2011 | EAC CoC 03078 |
| EAC<br>GZO Almaty Standart | TP TC 020/2011 | EAC CoC 03081 |
| UL<br>Underwriters Laboratories Inc. | UL 508 | E255817 |
| UR<br>Underwriters Laboratories Inc. | UL 60950-1 | E255815 |

### Declarations of conformity and manufacturer's declarations

| Approval | Standard | Certificate Name |
|---|---|---|
| EU-Declaration of Conformity<br>WAGO GmbH & Co. KG | - | - |
| MFD for SEMI F47<br>WAGO GmbH & Co. KG | - | - |

## Downloads

### Environmental Product Compliance

**Compliance Search**

Environmental Product Compliance 787-734

### Documentation

**Bid Text**

| | | |
|---|---|---|
| 787-734 | 12.07.2019 | xml<br>7.06 KB |
| 787-734 | 12.07.2019 | docx<br>21.31 KB |

**Instruction Leaflet**

| | | |
|---|---|---|
| Primary Switch Mode Power Supply ECO-Power | V 1.6<br>21.12.2020 | pdf<br>370.91 KB |

### CAD/CAE-Data

**CAD data**

2D/3D Models 787-734

**CAE data**

EPLAN Data Portal 787-734

WSCAD Universe 787-734

ZUKEN Portal 787-734


Continued on next page

## 1 Compatible Products

### 1.1 Optional Accessories

#### 1.1.1 Tool

##### 1.1.1.1 Operating tool



Item No.: 210-769
SCREWDRIVER; green