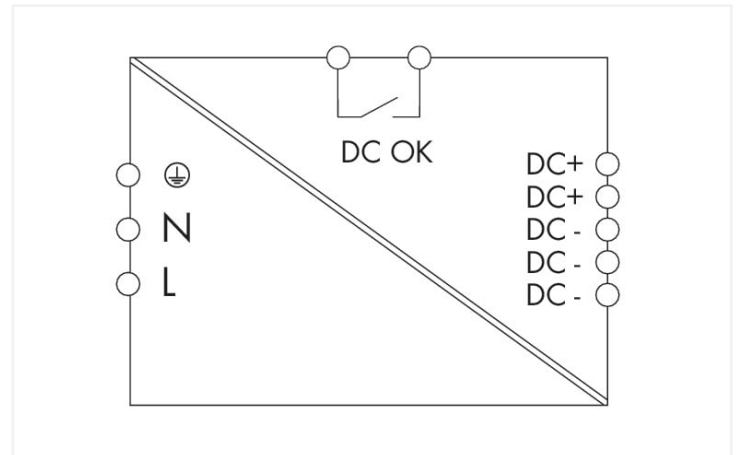
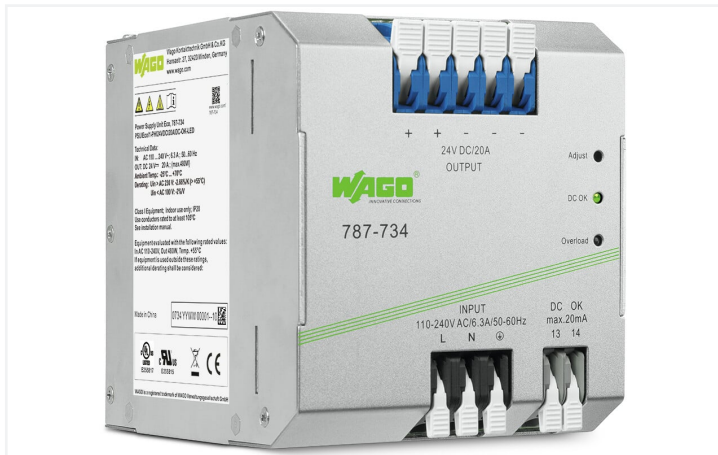


## Data Sheet | Item Number: 787-734

Switched-mode power supply; Eco; 1-phase; 24 VDC output voltage; 20 A output current; DC OK contact; 6,00 mm<sup>2</sup>

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



### 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                              |  | Output                              |   |
|------------------------------------|--|-------------------------------------|---|
| Phases                             | 1  | Nominal output voltage $U_{o, nom}$ | DC 24 V (SELV)  |
| Nominal input voltage $U_{i, nom}$ | 1 x AC 110 ... 240 V                         | Output voltage range                | DC 22 ... 28 V (adjustable)   |
| Input voltage range                | 1 x AC 85 ... 264 V; DC 130 ... 373 V        | Default setting                     | DC 24 V   |
| Nominal mains frequency range      | 47 ... 63 Hz; 0 Hz                           | Nominal output current $I_{o, nom}$ | 20 A (24 VDC)   |
| Input current $I_i$                | $\leq 3$ A (230 VAC); $\leq 6.3$ A (115 VAC) | Nominal output power                | 480 W   |
| Discharge current                  | $\leq 2$ mA                                  | Deviation                           | $\leq 1$ %  |
| Inrush current                     | $\leq 30$ A                                  | Residual ripple                     | $\leq 100$ mV (peak-to-peak)  |
| Power factor                       | $\geq 0.94$ (230 VAC); $\geq 0.98$ (115 VAC) | Overload behavior                   | Constant power (in overload range: $1.15 \dots 1.4 \times I_{o, nom}$ ); Shutdown and automatic restart in the event of a short circuit |
| Power factor correction (PFC)      | active                                       |                                     |   |
| Mains failure hold-up time         | $\geq 20$ ms (230 VAC)                       |                                     |   |

### Signaling and communication

|                            |  |
|----------------------------|--|
| Signaling                  | 1 x LED DC OK (green)<br>1 x Overload LED (red)<br>1 x DC OK signal output (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 $P_I$               | $\leq 65$ W (230 VAC; nominal load) |
| 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 (pri.-sec.)   | DC 4.242 kV                 |
| Isolation voltage (pri.-PE)     | DC 2.2 kV                   |
| Isolation voltage (sec.-PE)     | DC 0.7 kV                   |
| Isolation voltage (sec.-signal) | DC 0.7 kV                   |
| Protection class                | I                           |
| Protection type                 | IP20; per EN 60529          |
| Resistance to reverse feed      | ≤ DC 29 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                            | > 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 <sup>2</sup> / 20 ... 10 AWG |
| Fine-stranded conductor   | 0.5 ... 6 mm <sup>2</sup> / 20 ... 10 AWG |
| Strip length              | 11 ... 12 mm / 0.43 ... 0.47 inches       |
| Connection type 2         | Output                                    |
| Connection technology 2   | CAGE CLAMP®                               |
| WAGO connector 2          | WAGO 2716 Series                          |
| Solid conductor 2         | 1.5 ... 16 mm <sup>2</sup> / 16 ... 6 AWG |
| Fine-stranded conductor 2 | 1.5 ... 16 mm <sup>2</sup> / 16 ... 6 AWG |
| Strip length 2            | 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 |
|---------------|-------------|

### Material data

|           |        |
|-----------|--------|
| Fire load | 0 MJ   |
| 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              |

### Standards and specifications

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

### 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                       |
| GTIN                  | 4050821495291            |
| Customs tariff number | 85044083900              |

### Environmental Product Compliance

|   |                                      |
|---|--------------------------------------|
| RoHS Compliance Status                    | Compliant,With Exemption             |
| RoHS Exemption                            | 6(c)<br>7(a)<br>7(c)-I<br>7(c)-II    |
| SCIP notification number (Bulgaria)       | 981d1d3e-1d07-4a2a-b7ff-f24c0b1a11e1 |
| SCIP notification number (Czech Republic) | 6172285d-1347-46fd-870c-cdc678f691eb |

### Approvals / Certificates

#### General approvals



| Approval                                    | Standard                         | Certificate Name                |
|---|----------------------------------|---------------------------------|
| EAC<br>Brjansker Zertifizierungs-<br>stelle | TP TC 004/2011,TP TC<br>020/2011 | EAC RU C-DE.AM02.<br>B.00089_19 |
| UL<br>Underwriters Laboratories<br>Inc.     | UL 508                           | E255817                         |
| UL<br>Underwriters Laboratories<br>Inc.     | UL 60950-1                       | E255815                         |

#### Declarations of conformity and manufacturer's declarations

| Approval  | Standard | Certificate Name |
|---|----------|------------------|
| EU-Declaration of Confor-<br>mity<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<br>Power Supply ECO-<br>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<br>787-734 |    |
| WSCAD Universe<br>787-734    |    |
| ZUKEN Portal 787-734         |  |