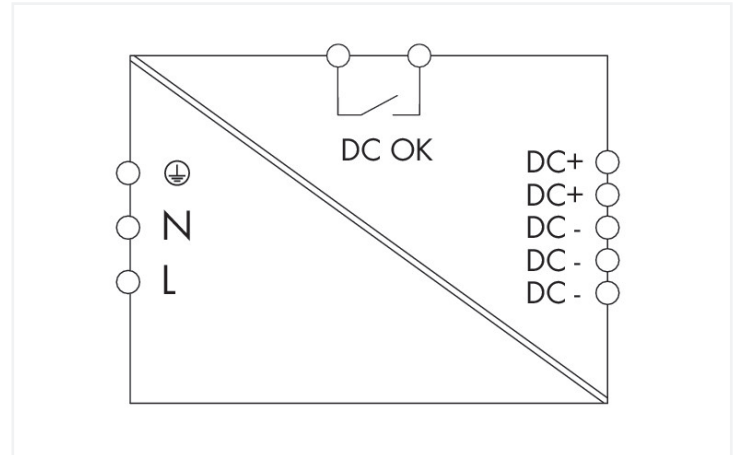


## Data Sheet | Item Number: 787-734

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) 1 x Overload LED (red) 1 x DC OK signal output (optocoupler as make contact; max. 31.2 V; 20 mA)
Operation status indicator	Green LED (24 VDC OK) 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
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### 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 EN 61204-3 EN 61000-6-2 EN 61000-6-3 UL 60950-1 UL 508 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) 7(a) 7(c)-I 7(c)-II
SCIP notification number (Bulgaria)	981d1d3e-1d07-4a2a-b7ff-f24c0b1a11e1
SCIP notification number (Czech Republic)	6172285d-1347-46fd-870c-cdc678f691eb