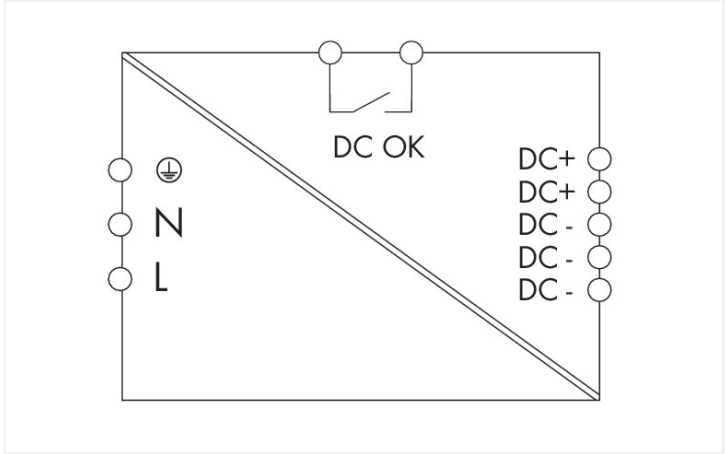


Data Sheet | Item Number: 787-734

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>



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		Efficiency/power losses	
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)	Power loss P_I	$\leq 65\ W\ (230\ VAC; \text{nominal load})$
Operation status indicator	Green LED (24 VDC OK) Red LED (overload)	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
Overtoltage 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 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 type 2		Output
Connection technology		CAGE CLAMP®
WAGO connector 2		WAGO 2716 Series
Solid conductor 2		1.5 ... 16 mm² / 16 ... 6 AWG
Fine-stranded conductor 2		1.5 ... 16 mm² / 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		2120 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

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

Approvals / Certificates

General approvals



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

Downloads

Environmental Product Compliance



Compliance Search			
Environmental Product Compliance 787-734			↓

Documentation			
Bid Text		Instruction Leaflet	
787-734	12.07.2019	xml 7.06 KB	↓
787-734	12.07.2019	docx 21.31 KB	↓
		Primary Switch Mode Power Supply ECO-Power	V 1.6 21.12.2020 pdf 370.91 KB ↓

CAD/CAE-Data	
CAD data	CAE data
2D/3D Models 787-734	EPLAN Data Portal 787-734
	WSCAD Universe 787-734
	ZUKEN Portal 787-734

1 Compatible Products
1.1 Optional Accessories
1.1.1 Tool
1.1.1.1 Operating tool



Item No.: 210-769 SCREWDRIVER; green
