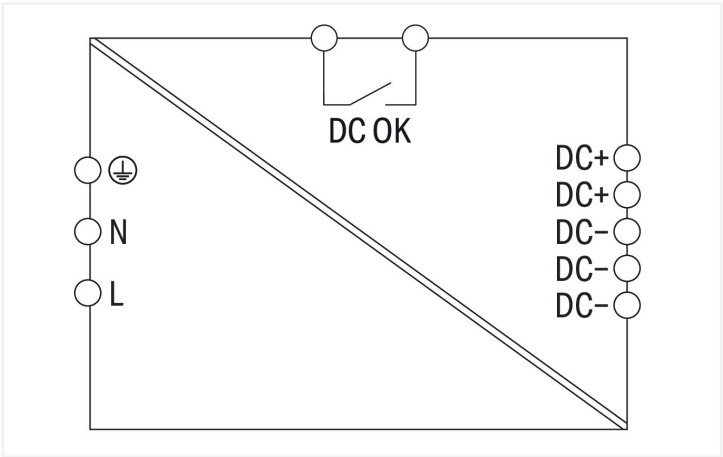


Data Sheet | Item Number: 787-734

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 $U_{o\ nom}$	24 VDC (SELV)
Nominal input voltage $U_{i\ nom}$	1 x 110 ... 240 VAC	Output voltage range	22 ... 28 VDC (adjustable)
Input voltage range	1 x 85 ... 264 VAC; 130 ... 373 VDC	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	$\leq 65\ W\ (230\ VAC; \text{nominal load})$
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)		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 type 1		Input/signaling
Connection technology		CAGE CLAMP® CAGE CLAMP®
WAGO connector		WAGO 2706 Series
Solid conductor		0.5 ... 6 mm² / 20 ... 10 AWG 1.5 ... 16 mm² / 16 ... 6 AWG
Fine-stranded conductor		0.5 ... 6 mm² / 20 ... 10 AWG 1.5 ... 16 mm² / 16 ... 6 AWG
Strip length		11 ... 12 mm / 0.43 ... 0.47 inches 12 ... 13 mm / 0.47 ... 0.51 inches
Connection type		Output
WAGO connector 2		WAGO 2716 Series

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
Climatic category	3K3 (per EN 60721)

Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 62368-1 EN 61204-3 EN 61000-6-2 EN 61000-6-4 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 9.0	EC002540
ETIM 8.0	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, No Exemption
SCIP notification number (Bulgaria)	981d1d3e-1d07-4a2a-b7ff-f24c0b1a11e1
SCIP notification number (Czech Republic)	6172285d-1347-46fd-870c-cdc678f691eb

Approvals / Certificates		
General approvals		Declarations of conformity and manufacturer's declarations
  		
Approval	Standard	Certificate Name
EAC GZO Almaty Standart	TP TC 004/2011	EAC CoC 03078
EAC GZO Almaty Standart	TP TC 020/2011	EAC CoC 03081
UL Underwriters Laboratories Inc.	UL 508	E255817
UR Underwriters Laboratories Inc.	UL 60950-1	E255815

Approval	Standard	Certificate Name
EU-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-
MFD for SEMI F47 WAGO GmbH & Co. KG	-	-



Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 787-734

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Documentation

Bid Text

787-734	12.07.2019	xml 7.06 KB	Download icon
787-734	12.07.2019	docx 21.31 KB	Download icon

Instruction Leaflet

Primary Switch Mode Power Supply ECO-Power	V 1.6 21.12.2020	pdf 370.91 KB	Download icon
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CAD/CAE-Data

CAD data

2D/3D Models 787-734

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CAE data

EPLAN Data Portal 787-734

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WSCAD Universe 787-734

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ZUKEN Portal 787-734

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1 Compatible Products

1.1 Optional Accessories

1.1.1 Tool

1.1.1.1 Operating tool



Item No.: 210-769
SCREWDRIVER; green