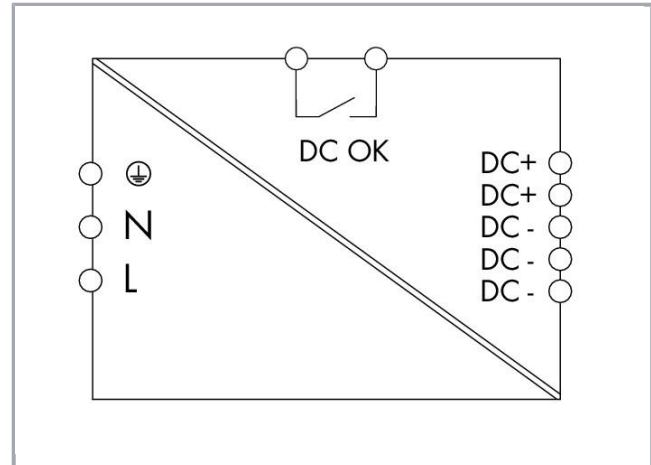


Data sheet | Item number: 787-734

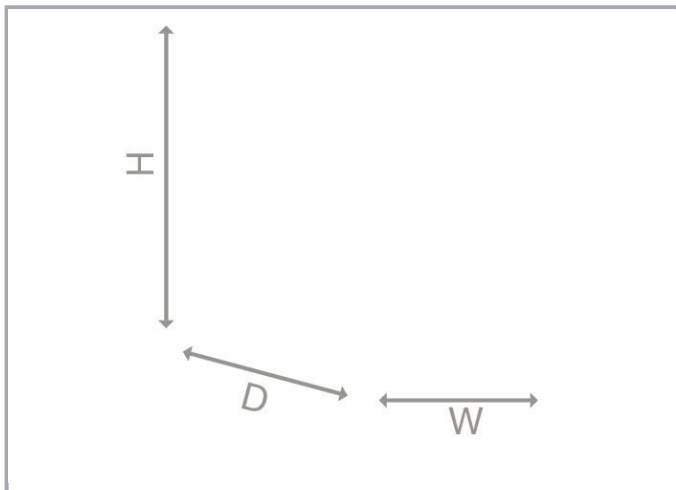
Switched-mode power supply; Eco; 1-phase; 24 VDC output voltage; 20 A output current; DC OK contact; 6,00 mm²

www.wago.com/787-734



RoHS
Compliant

BOMcheck.net



Item description

Subject to changes. Please also observe the further product documentation!

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**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

Data**Technical Data****Input**

Phases	1
Nominal input voltage $U_{i\text{nom}}$	AC 110 ... 240 V
Input voltage range	AC 85 ... 264 V; DC 130 ... 373 V
Nominal mains frequency range	47 ... 63 Hz; 0 Hz
Input current I_i	$\leq 3\text{ A}$ (230 VAC); $\leq 6,3\text{ A}$ (115 VAC)
Discharge current	$\leq 2\text{ mA}$
Inrush current	$\leq 30\text{ A}$
Power factor	$\geq 0,94$ (230 VAC); $\geq 0,98$ (115 VAC)
Power factor correction (PFC)	Active
Mains failure hold-up time	$\geq 20\text{ ms}$ (230 VAC)

Output

Nominal output voltage $U_{o\text{nom}}$	DC 24 V (SELV)
Output voltage range	DC 22 ... 28 V (adjustable)
Default setting	DC 24 V
Nominal output current $I_{o\text{nom}}$	20 A (24 VDC)
Nominal output power	480 W
Control deviation	$\leq 1\%$
Residual ripple	$\leq 100\text{ mV}$ (peak-to-peak)
Overload behavior	Constant power (in overload range: $1.15 \dots 1.4 \times I_{o\text{nom}}$); Shutdown and automatic restart in the event of a short circuit

Subject to changes. Please also observe the further product documentation!



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

Fuse protection:

Internal fuse	T 10 A / 250 VAC
Required backup fusing	An external DC fuse is required for the DC input voltage.
Recommended backup fusing	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.-GND)	DC 2,2 kV
Isolation voltage (Sec.-GND)	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	$\leq$ DC 29 V
Overvoltage category	II
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)

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Connection data

Connection type (1)	Input/Signaling
Connection technology	Push-in CAGE CLAMP®
WAGO Connector	WAGO 2706 Series
Solid conductor	0,5 ... 6 mm ² / 20 ... 10 AWG
Fine-stranded conductor	0,5 ... 6 mm ² / 20 ... 10 AWG
Strip length	11 ... 12 mm / 0.43 ... 0.47 inch
Connection type 2	Output
Connection technology 2	Push-in CAGE CLAMP®
WAGO Connector 2	WAGO 2716 Series
Solid conductor 2	1,5 ... 16 mm ² / 16 ... 6 AWG
Fine-stranded conductor 2	1,5 ... 16 mm ² / 16 ... 6 AWG
Strip length 2	12 ... 13 mm / 0.47 ... 0.51 inch

Geometrical Data

Width	115 mm / 4.528 inch
Height	136 mm / 5.354 inch
Depth from upper edge of DIN-rail	144 mm / 5.669 inch

Mechanical data

Mounting type	DIN-35 rail (EN 60715)
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Material Data

Weight	2120 g
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Environmental Requirements

Surrounding air temperature (operation)	-25 ... 70 °C
Surrounding air temperature (storage)	-25 ... 85 °C
Relative humidity	≤ 95% (no condensation permissible)
Derating	See instruction manual
Pollution degree	2
Climatic category	3K3 (per EN 60721)

Subject to changes. Please also observe the further product documentation!

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 Electronics)
Packaging type	BOX
Country of origin	CN
GTIN	4050821495291
Customs tariff number	85044082900

Approvals / Certificates

UL-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	UL Underwriters Laboratories Inc.	UL 60950-1	E255815
	UL Underwriters Laboratories Inc.	UL 508	E255817

Counterpart

Compatible products

tools



Item no.: 210-769
SCREWDRIVER; green

www.wago.com/210-769

ferrule



Item no.: 216-201
Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; white

www.wago.com/216-201

Subject to changes. Please also observe the further product documentation!

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	Item no.: 216-202 Ferrule; Sleeve for 0.75 mm ² / 18 AWG; insulated; electro-tin plated; gray	www.wago.com/216-202
	Item no.: 216-203 Ferrule; Sleeve for 1 mm ² / AWG 18; insulated; electro-tin plated; red	www.wago.com/216-203
	Item no.: 216-204 Ferrule; Sleeve for 1.5 mm ² / AWG 16; insulated; electro-tin plated; black	www.wago.com/216-204
	Item no.: 216-205 Ferrule; Sleeve for 2.08 mm ² / AWG 14; insulated; electro-tin plated; yellow	www.wago.com/216-205
	Item no.: 216-206 Ferrule; Sleeve for 2.5 mm ² / AWG 14; insulated; electro-tin plated; blue	www.wago.com/216-206
	Item no.: 216-207 Ferrule; Sleeve for 4 mm ² / AWG 12; insulated; electro-tin plated; gray	www.wago.com/216-207
	Item no.: 216-208 Ferrule; Sleeve for 6 mm ² / AWG 10; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; yellow	www.wago.com/216-208
	Item no.: 216-209 Ferrule; Sleeve for 10 mm ² / AWG 8; insulated; electro-tin plated; red	www.wago.com/216-209
	Item no.: 216-221 Ferrule; Sleeve for 0.5 mm ² / 20 AWG; insulated; electro-tin plated; white	www.wago.com/216-221
	Item no.: 216-222 Ferrule; Sleeve for 0.75 mm ² / 18 AWG; insulated; electro-tin plated; gray	www.wago.com/216-222
	Item no.: 216-223 Ferrule; Sleeve for 1 mm ² / AWG 18; insulated; electro-tin plated; red	www.wago.com/216-223
	Item no.: 216-224 Ferrule; Sleeve for 1.5 mm ² / AWG 16; insulated; electro-tin plated; black	www.wago.com/216-224
	Item no.: 216-241 Ferrule; Sleeve for 0.5 mm ² / 20 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; white	www.wago.com/216-241
	Item no.: 216-242 Ferrule; Sleeve for 0.75 mm ² / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray	www.wago.com/216-242
	Item no.: 216-243 Ferrule; Sleeve for 1 mm ² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red	www.wago.com/216-243
	Item no.: 216-244 Ferrule; Sleeve for 1.5 mm ² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black	www.wago.com/216-244
	Item no.: 216-246 Ferrule; Sleeve for 2.5 mm ² / AWG 14; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; blue	www.wago.com/216-246
	Item no.: 216-262	

Subject to changes. Please also observe the further product documentation!

	Ferrule; Sleeve for 0.75 mm ² / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray	www.wago.com/216-262
	Item no.: 216-263 Ferrule; Sleeve for 1 mm ² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red	www.wago.com/216-263
	Item no.: 216-264 Ferrule; Sleeve for 1.5 mm ² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black	www.wago.com/216-264
	Item no.: 216-266 Ferrule; Sleeve for 2.5 mm ² / AWG 14; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; blue	www.wago.com/216-266
	Item no.: 216-267 Ferrule; Sleeve for 4 mm ² / AWG 12; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray	www.wago.com/216-267
	Item no.: 216-284 Ferrule; Sleeve for 1.5 mm ² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black	www.wago.com/216-284
	Item no.: 216-286 Ferrule; Sleeve for 2.5 mm ² / AWG 14; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; blue	www.wago.com/216-286
	Item no.: 216-287 Ferrule; Sleeve for 4 mm ² / AWG 12; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray	www.wago.com/216-287
	Item no.: 216-288 Ferrule; Sleeve for 6 mm ² / AWG 10; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; yellow	www.wago.com/216-288
	Item no.: 216-289 Ferrule; Sleeve for 10 mm ² / AWG 8; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red	www.wago.com/216-289

Downloads

Documentation

Bid Text

787-734 GAEB X81 - Datei	Jul 12, 2019	xml 7.2 kB	Download
787-734 GAEB docx - Datei	Jul 12, 2019	docx 21.8 kB	Download

Instruction Leaflet

Primär getaktete Stromversorgungen EPSITRON-ECO-Power DC 24 V, 20 A	V 1.4 Jul 15, 2019	pdf 530.9 kB	Download
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CAD/CAE-Data

CAD data

2D/3D Models 787-734	URL	Download
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CAE data

EPLAN Data Portal 787-734	URL	Download
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WSCAD Universe 787-734	URL	Download
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Installation Notes

Product family

Eco

[Show all products from the family](#)

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