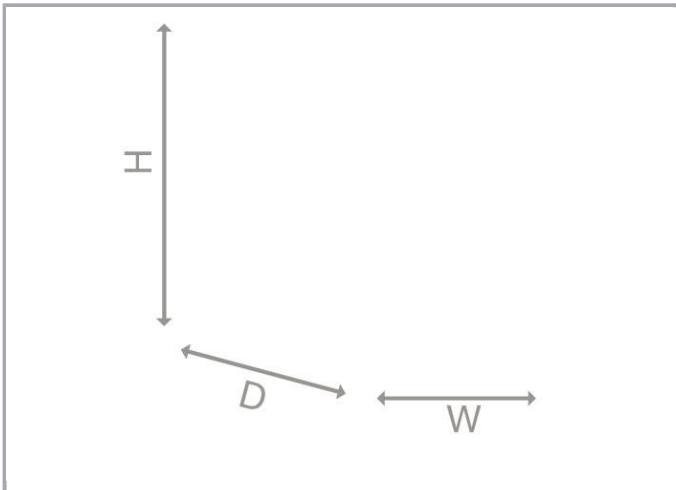
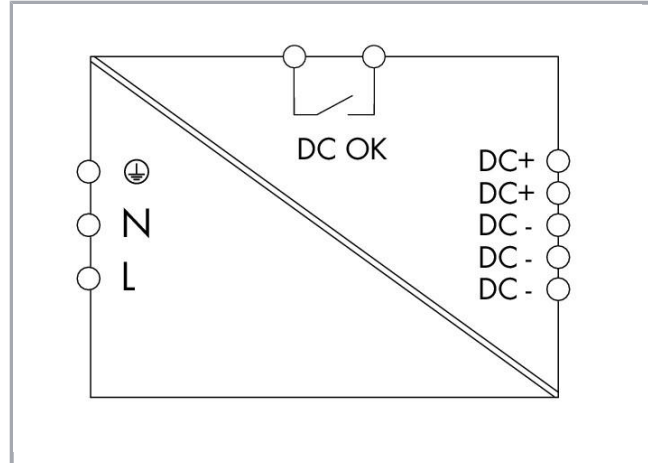


# Data sheet | Item number: 787-734

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



[www.wago.com/787-734](http://www.wago.com/787-734)



## Item description

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

WAGO Kontakttechnik GmbH & Co. KG  
Hansastr. 27  
32423 Minden  
Phone: +49571 887-0 | Fax: +49571 887-169  
Email: [info.de@wago.com](mailto:info.de@wago.com) | Web: [www.wago.com](http://www.wago.com)

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We are always happy to take your call at +49 (571) 887-44222.



## 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 $I_i$                     | $\leq 3$ A (230 VAC); $\leq 6,3$ A (115 VAC) |
| Discharge current                       | $\leq 2$ mA                                  |
| Inrush current                          | $\leq 30$ A                                  |
| Power factor                            | $\geq 0,94$ (230 VAC); $\geq 0,98$ (115 VAC) |
| Power factor correction (PFC)           | Active                                       |
| Mains failure hold-up time              | $\geq 20$ ms (230 VAC)                       |

## Output

|  |  |
|--|--|
| Nominal output voltage $U_{o\text{nom}}$ | DC 24 V (SELV)   |
| Output voltage range                     | DC 22 ... 28 V (adjustable)  |
| Factory preset                           | DC 24 V  |
| Nominal output current $I_{o\text{nom}}$ | 20 A (24 VDC)  |
| Nominal output power                     | 480 W  |
| Adjustment accuracy                      | $\leq 1$ %   |
| Residual ripple                          | $\leq 100$ 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 |

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## 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;<br>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) |
| Max. power loss $P_{V \max}$ | 107 W (110 VAC / 24 VDC; 23 A)      |
| Efficiency (typ.)            | 90 %                                |

## Fuse protection:

|                             |  |
|-----------------------------|--|
| Internal fuse               | T 10 A / 250 VAC   |
| External fuse (required)    | An external DC fuse is required for the DC input voltage.    |
| External fuse (recommended) | Circuit breaker: 10 A, 16 A; Tripping characteristic: B or C |

## Safety and protection:

|                                 |                               |
|---------------------------------|-------------------------------|
| Insulation voltage (PRI-SEC)    | DC 4,242 kV                   |
| Isolation voltage (PRI-GND)     | DC 2,2 kV                     |
| Insulation voltage (SEC-GND)    | DC 0,7 kV                     |
| Insulation voltage (SEC-Signal) | DC 0,7 kV                     |
| Protection class                | I                             |
| Protection class                | IP20 (per EN 60529)           |
| Feedback voltage                | $\leq$ DC 29 V                |
| Overvoltage category            | II                            |
| Transient protection, primary   | Varistor                      |
| Short circuit protection        | Yes                           |
| No-load proof                   | Yes                           |
| Parallel operation              | Yes                           |
| Series connection               | Yes                           |
| MTBF                            | $> 250,000$ h (per IEC 61709) |

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

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## Connection data

|                             |   |
|-----------------------------|---|
| Connection type (1)         | Input/Signaling                           |
| Connection technology       | Push-in CAGE CLAMP®                       |
| WAGO terminal               | 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 inch         |
| Connection type (2)         | Output                                    |
| Connection technology 2     | Push-in CAGE CLAMP®                       |
| WAGO terminal 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 inch         |

## Geometrical Data

|                                       |                     |
|---------------------------------------|---------------------|
| Width                                 | 115 mm / 4.528 inch |
| Height                                | 136 mm / 5.354 inch |
| Length from upper-edge of DIN-35 rail | 144 mm / 5.669 inch |

## Mechanical data

|                  |                        |
|------------------|------------------------|
| Type of mounting | DIN-35 rail (EN 60715) |
|------------------|------------------------|

## Material Data

|        |        |
|--------|--------|
| Weight | 2120 g |
|--------|--------|

## Environmental Requirements

|   |                                     |
|---|-------------------------------------|
| Surrounding air (operating) temperature | -25 ... 70 °C                       |
| Surrounding air (storage) temperature   | -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 No. | 85044082900               |

## Approvals / Certificates



### UL-Approvals

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












## Counterpart

## Compatible products







### ferrule

|  |  |  |
|--|--|--|
|  | <b>Item no.: 216-201</b><br>Ferrule; Sleeve for 0.5 mm <sup>2</sup> / 20 AWG; insulated; electro-tin plated; white | <a href="http://www.wago.com/216-201">www.wago.com/216-201</a> |
|  | <b>Item no.: 216-202</b><br>Ferrule; Sleeve for 0.75 mm <sup>2</sup> / 18 AWG; insulated; electro-tin plated; gray | <a href="http://www.wago.com/216-202">www.wago.com/216-202</a> |

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

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

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

|  |  |  |
|--|--|--|
|     | <p><b>Item no.: 216-263</b><br/>                     Ferrule; Sleeve for 1 mm<sup>2</sup> / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red</p>     | <a href="http://www.wago.com/216-263">www.wago.com/216-263</a> |
|  | <p><b>Item no.: 216-264</b><br/>                     Ferrule; Sleeve for 1.5 mm<sup>2</sup> / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black</p> | <a href="http://www.wago.com/216-264">www.wago.com/216-264</a> |
|  | <p><b>Item no.: 216-266</b><br/>                     Ferrule; Sleeve for 2.5 mm<sup>2</sup> / AWG 14; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; blue</p>  | <a href="http://www.wago.com/216-266">www.wago.com/216-266</a> |
|     | <p><b>Item no.: 216-267</b><br/>                     Ferrule; Sleeve for 4 mm<sup>2</sup> / AWG 12; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray</p>    | <a href="http://www.wago.com/216-267">www.wago.com/216-267</a> |
|     | <p><b>Item no.: 216-284</b><br/>                     Ferrule; Sleeve for 1.5 mm<sup>2</sup> / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black</p> | <a href="http://www.wago.com/216-284">www.wago.com/216-284</a> |
|     | <p><b>Item no.: 216-286</b><br/>                     Ferrule; Sleeve for 2.5 mm<sup>2</sup> / AWG 14; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; blue</p>  | <a href="http://www.wago.com/216-286">www.wago.com/216-286</a> |
|  | <p><b>Item no.: 216-287</b><br/>                     Ferrule; Sleeve for 4 mm<sup>2</sup> / AWG 12; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray</p>    | <a href="http://www.wago.com/216-287">www.wago.com/216-287</a> |
|  | <p><b>Item no.: 216-288</b><br/>                     Ferrule; Sleeve for 6 mm<sup>2</sup> / AWG 10; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; yellow</p>  | <a href="http://www.wago.com/216-288">www.wago.com/216-288</a> |
|   | <p><b>Item no.: 216-289</b><br/>                     Ferrule; Sleeve for 10 mm<sup>2</sup> / AWG 8; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red</p>     | <a href="http://www.wago.com/216-289">www.wago.com/216-289</a> |
| <b>tools</b>   |  |  |
|  | <p><b>Item no.: 210-769</b><br/>                     SCREWDRIVER; green</p>  | <a href="http://www.wago.com/210-769">www.wago.com/210-769</a> |

## Downloads

### Documentation

#### Instruction Leaflet

|   |                       |                 |          |
|---|-----------------------|-----------------|----------|
| Primär getaktete Stromversorgungen EPSITRON-ECO-Power DC 24 V, 20 A | V 1.4<br>Jul 15, 2019 | pdf<br>530.9 kB | Download |
|---|-----------------------|-----------------|----------|

#### Additional Information

|  |         |                 |          |
|--|---------|-----------------|----------|
| Disposal; Electrical and electronic equipment, Packaging | V 1.0.0 | pdf<br>265.8 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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WAGO Kontakttechnik GmbH & Co. KG  
Hansastr. 27  
32423 Minden  
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