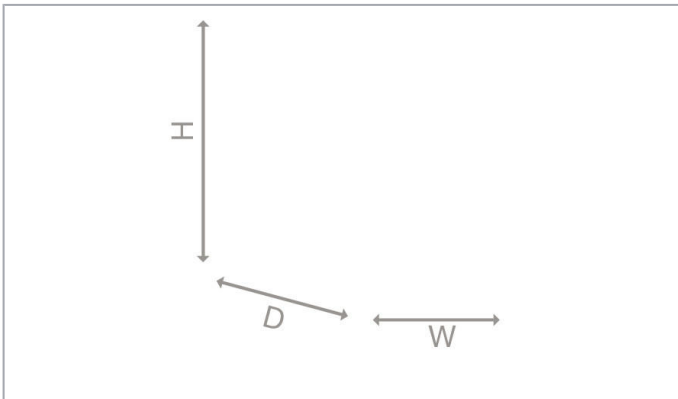
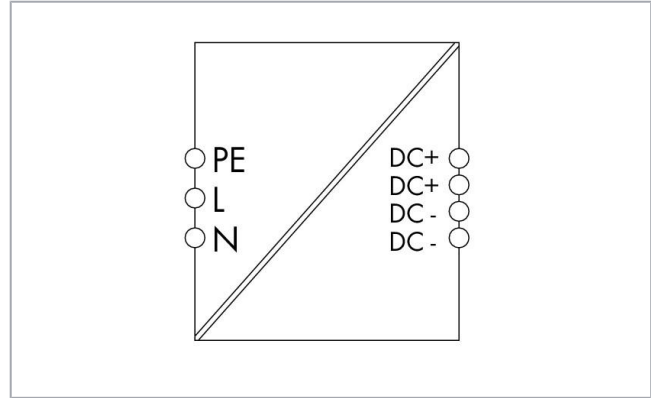
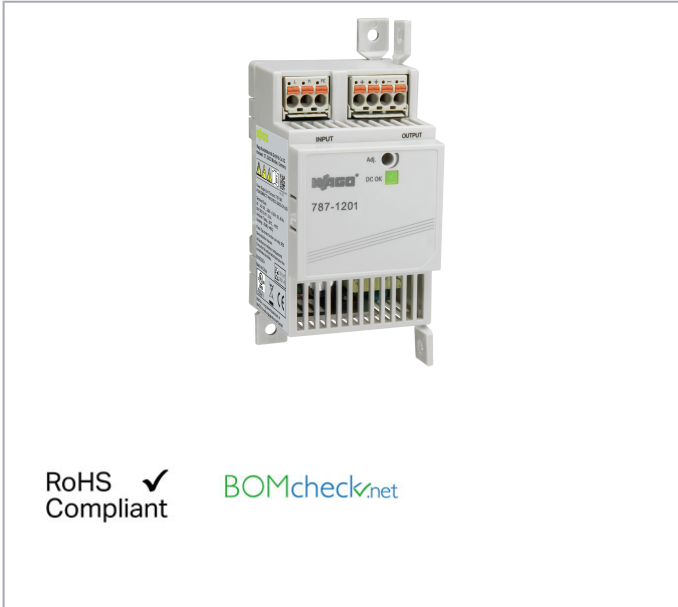


## Data sheet | Item number: 787-1201

Switched-mode power supply; Compact; 1-phase; 12 VDC output voltage;  
2.5 A output current; DC-OK LED

[www.wago.com/787-1201](http://www.wago.com/787-1201)



### Item description

#### Features:

- Stepped profile for installation in standard distribution boards
- Removable front panel and screw mounts for alternative installation in distribution boxes or devices
- Pluggable *picoMAX*<sup>®</sup> Connection Technology (tool-free)
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per EN 60335-1; PELV per EN 60204

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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## Data

### Technical data

#### Input

|   |  |
|---|--|
| Phases                                  | 1                                      |
| Nominal input voltage $U_{i\text{nom}}$ | 1 x AC 100 ... 240 V; DC 140 ... 340 V |
| Input voltage range                     | AC 90 ... 264 V; DC 125 ... 375 V      |
| Input voltage derating                  | -1.5 %/V (< 100 VAC)                   |
| Nominal mains frequency range           | 47 ... 63 Hz; 0 Hz                     |
| Input current $I_i$                     | $\leq 0.6$ A (100 VAC; 2.5 ADC)        |
| Discharge current                       | $\leq 0.25$ mA                         |
| Inrush current                          | $\leq 30$ A (NTC)                      |
| Power factor                            | $\geq 0.5$                             |
| Power factor correction (PFC)           | Passive                                |
| Mains failure hold-up time              | $\geq 1000$ ms (230 VAC)               |

#### Output

|  |   |
|--|---|
| Nominal output voltage $U_{o\text{nom}}$   | DC 12 V (SELV)  |
| Output voltage range                       | DC 10 ... 14 V (adjustable)   |
| Default setting                            | DC 12 V   |
| Nominal output current $I_{o\text{nom}}$   | 2.5 A   |
| Nominal output power                       | 30 W  |
| Control deviation                          | $\leq 1$ %  |
| Deviation, dynamic load change 10 ... 90 % | $\leq 1$ %  |
| Residual ripple                            | $\leq 100$ mV (peak-to-peak)  |
| Overload behavior                          | Constant power (in overload range: $1.05 \dots 1.35 \times I_{o\text{nom}}$ ); Shutdown and automatic restart in the event of a short circuit or permanent overload |

#### Signaling and communication

|                            |                       |
|----------------------------|-----------------------|
| Signaling                  | 1 x LED DC OK (green) |
| Operation status indicator | Green LED ( $U_o$ )   |

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



## Efficiency/power losses

|                                |  |
|--------------------------------|--|
| Power loss $P_l$               | $\leq 0.5$ W (230 VAC; No load)                              |
| Power loss (max.) $P_{l(max)}$ | 4.5 W (100 VAC / 12 VDC; 2.5 A)                              |
| Efficiency (typ.)              | 88 % (230 VAC; Nominal load); 87.5 % (110 VAC; Nominal load) |

## Circuit protection

|                           |  |
|---------------------------|--|
| Internal fuse             | T 1 A / 250 VAC  |
| Required backup fusing    | An external DC fuse is required for the DC input voltage.        |
| Recommended backup fusing | Circuit breaker: 6 A, 10 A or higher; Tripping characteristic: B |

## Safety and protection

|                                   |  |
|-----------------------------------|--|
| Isolation voltage (Pri.-Sec.)     | DC 4.242 kV  |
| Isolation voltage (Pri.-GND)      | DC 2.12 kV   |
| Protection class                  | I  |
| Protection type                   | IP20 (per EN 60529)  |
| Resistance to reverse feed        | $\leq$ DC 16 V   |
| Overvoltage category              | II   |
| Pollution degree                  | 2  |
| Transient suppression (primary)   | Varistor   |
| Overvoltage protection; secondary | $\leq 20$ VDC (in the event of a fault)  |
| Short-circuit-protected           | Yes  |
| Open-circuit-proof                | Yes  |
| Parallel operation                | Yes, for devices of the same type  |
| Series operation                  | Yes, for 2 devices of the same type  |
| MTBF                              | > 3,500,000 h (at 25 °C; per IEC 61709); > 800,000 h (at 40 °C; per IEC 61709) |

## Connection data

|                         |   |
|-------------------------|---|
| Connection type (1)     | Input/Output                                |
| Connection technology   | Push-in CAGE CLAMP®                         |
| WAGO Connector          | picoMAX® 5.0, WAGO 2092 Series              |
| Solid conductor         | 0.2 ... 2.5 mm <sup>2</sup> / 24 ... 12 AWG |
| Fine-stranded conductor | 0.2 ... 2.5 mm <sup>2</sup> / 24 ... 12 AWG |
| Strip length            | 9 ... 10 mm / 0.35 ... 0.39 inch            |

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



## Physical data

|                                   |                              |
|-----------------------------------|------------------------------|
| Width                             | 54 mm / 2.126 inch           |
| Height                            | 90 mm / 3.543 inch           |
| Depth                             | 56 mm / 2.205 inch           |
| Depth from upper edge of DIN-rail | 52.5 mm / 2.067 inch         |
| Note (dimensions)                 | Depth: 48 mm (without cover) |

## Mechanical data

|               |  |
|---------------|--|
| Mounting type | DIN-35 rail<br>Screw mount (back/side) |
|---------------|--|

## Material data

|                             |         |
|-----------------------------|---------|
| Flammability class per UL94 | V0      |
| Weight                      | 318.5 g |

## Environmental requirements

|   |   |
|---|---|
| Surrounding air temperature (operation) | -25 ... 70 °C                                   |
| Surrounding air temperature (storage)   | -40 ... 85 °C                                   |
| Relative humidity                       | 20 ... 90 % (no condensation permissible)       |
| Derating                                | -0.8 %/K (> 45 °C)                              |
| Pollution degree                        | 2   |
| Climatic category                       | 3K3 (per EN 60721; except for low air pressure) |

## Standards and specifications

|                          |                                |
|--------------------------|--------------------------------|
| Conformity marking       | CE                             |
| Standards/Specifications | EN 61204-3; EN 60335-1; UL 508 |

## Commercial data

|                       |               |
|-----------------------|---------------|
| PU (SPU)              | 1 Each        |
| Packaging type        | BOX           |
| Country of origin     | CN            |
| GTIN                  | 4055143863308 |
| Customs tariff number | 85044082900   |


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## Approvals / Certificates

### UL-Approvals

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

## 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> |
|    | <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.: 216-301</b><br>Ferrule; Sleeve for 0.25 mm <sup>2</sup> / AWG 24; insulated; electro-tin plated; yellow | <a href="http://www.wago.com/216-301">www.wago.com/216-301</a> |
|  | <b>Item no.: 216-302</b><br>Ferrule; Sleeve for 0.34 mm <sup>2</sup> / 22 AWG; insulated; electro-tin plated; green  | <a href="http://www.wago.com/216-302">www.wago.com/216-302</a> |

### Strain relief plate

|  |  |  |
|--|--|--|
|  | <b>Item no.: 2092-1601</b><br>Gripping plate; light gray | <a href="http://www.wago.com/2092-1601">www.wago.com/2092-1601</a> |
|--|--|--|

### tools

|  |  |  |
|--|--|--|
|  | <b>Item no.: 210-720</b><br>Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured | <a href="http://www.wago.com/210-720">www.wago.com/210-720</a> |
|  | <b>Item no.: 210-769</b><br>SCREWDRIVER; green   | <a href="http://www.wago.com/210-769">www.wago.com/210-769</a> |

## Downloads

### Documentation

#### Bid Text

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|                          |             |                 |          |
|--------------------------|-------------|-----------------|----------|
| 787-1201<br>docx - Datei | 30 Jul 2019 | docx<br>21.9 kB | Download |
|--------------------------|-------------|-----------------|----------|

|                         |             |               |          |
|-------------------------|-------------|---------------|----------|
| 787-1201<br>X81 - Datei | 30 Jul 2019 | xml<br>8.0 kB | Download |
|-------------------------|-------------|---------------|----------|

#### Instruction Leaflet

|                               |                        |               |          |
|-------------------------------|------------------------|---------------|----------|
| Stromversorgung COMPACT Power | V 1.2.0<br>18 Aug 2020 | pdf<br>2.7 MB | Download |
|-------------------------------|------------------------|---------------|----------|

#### Additional Information

|  |         |                 |          |
|--|---------|-----------------|----------|
| Disposal; Electrical and electronic equipment, Packaging | V 1.0.0 | pdf<br>265.8 kB | Download |
|--|---------|-----------------|----------|

### Environmental Product Compliance

#### Compliance Search

|   |  |     |          |
|---|--|-----|----------|
| Environmental Product Compliance 787-1201<br>Switched-mode power supply; Compact; 1-phase; 12 VDC output voltage; 2.5 A output current; DC-OK LED |  | URL | Download |
|---|--|-----|----------|

### Installation Notes

#### Product family

##### EPSITRON COMPACT Power

EPSITRON® COMPACT POWER: Compact, High-Performance Power Supplies

[Show all products from the family](#)

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