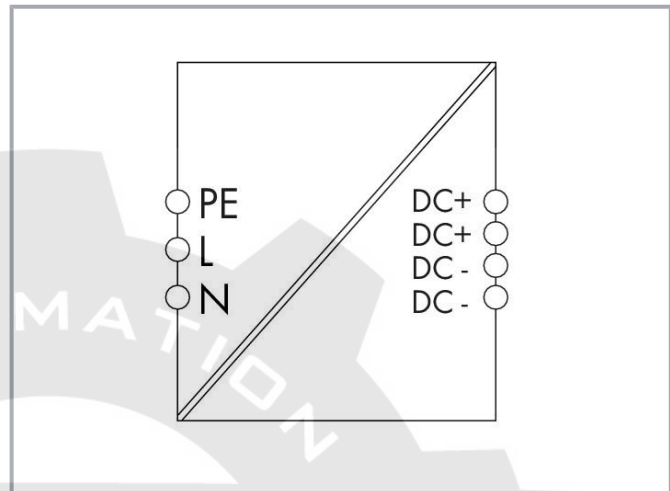
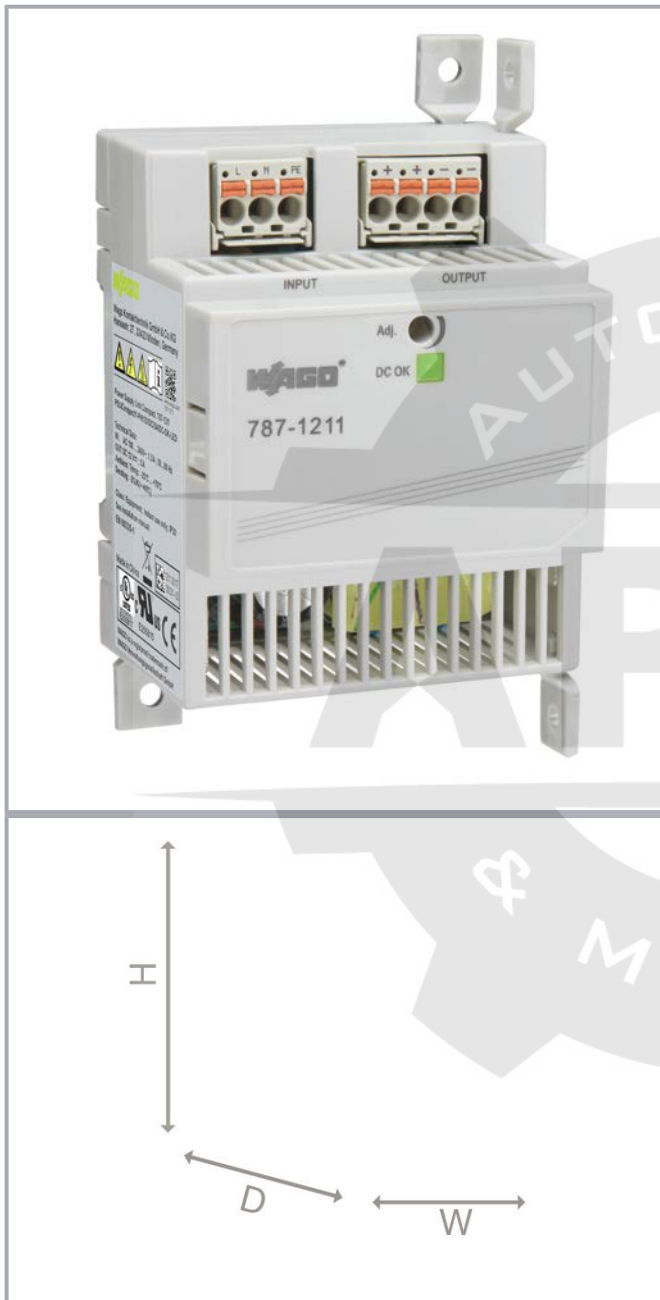


## Data sheet | Item number: 787-1211

Switched-mode power supply; Compact; 1-phase; 12 VDC output voltage; 5 A output current; DC-OK LED

[www.wago.com/787-1211](http://www.wago.com/787-1211)



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

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## Item description

### Features:

- Switched-mode power supply
- 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 and UL 60950-1; PELV per EN 60204

## Data

### Technical data

#### Input

|                               |                                                 |
|-------------------------------|-------------------------------------------------|
| Phases                        | 1                                               |
| Nominal input voltage [V]     | AC 100 ... 240 V<br>DC 140 ... 340 V            |
| Input voltage range           | AC 85 ... 264 V; DC 125 ... 375 V               |
| Input voltage derating        | -2 %/V (< 100 VAC); -1.33 %/V (< 140 VDC)       |
| Nominal mains frequency range | 47 ... 63 Hz; 0 Hz                              |
| Input current $I_i$           | $\leq 0.6$ A                                    |
| 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    | $\geq 600$ ms (230 VAC); $\geq 12$ ms (110 VAC) |

#### Output

|                                            |                              |
|--------------------------------------------|------------------------------|
| Nominal output voltage [V]                 | DC 12 V (SELV)               |
| Output voltage range                       | DC 12 V                      |
| Default setting                            | DC 12 V                      |
| Nominal output current $I_{o\text{ nom}}$  | 5 A                          |
| Nominal output power                       | 60 W                         |
| Control deviation                          | $\leq 1$ %                   |
| Deviation, dynamic load change 10 ... 90 % | $\leq 1$ %                   |
| Residual ripple                            | $\leq 100$ mV (peak-to-peak) |

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Overload behavior

Constant power (in overload range:  $1.22 \dots 1.7 \times I_{o\text{ nom}}$ ); Hiccup 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 ( $U_o$ )   |

## Efficiency/power losses

|                                        |                                                                |
|----------------------------------------|----------------------------------------------------------------|
| Power loss $P_l$                       | $\leq 0.6 \text{ W}$ (230 VAC; No load)                        |
| Power loss (max.) $P_{l(\text{max.})}$ | 9 W (100 VAC / 12 VDC; 2.5 A)                                  |
| Efficiency (typ.)                      | 88.5 % (230 VAC; Nominal load); 87.5 % (110 VAC; Nominal load) |

## Circuit protection

|                           |                                                                  |
|---------------------------|------------------------------------------------------------------|
| Internal fuse             | T 3.15 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)                             |
| Reverse voltage protection        | Yes                                             |
| Resistance to reverse feed        | $\leq \text{DC } 16 \text{ V}$                  |
| Overvoltage category              | II                                              |
| Pollution degree                  | 2                                               |
| Transient suppression (primary)   | Varistor                                        |
| Overvoltage protection; secondary | $\leq 20 \text{ VDC}$ (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                              | > 500,000 h (per IEC 61709)                     |

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## 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 mm² / 24 ... 12 AWG  |
| Fine-stranded conductor | 0.2 ... 2.5 mm² / 24 ... 12 AWG  |
| Strip length            | 9 ... 10 mm / 0.35 ... 0.39 inch |

## Physical data

|                                   |                              |
|-----------------------------------|------------------------------|
| Width                             | 72 mm / 2.835 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                      | 63 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                                | -3 %/K (> +45 °C and U <sub>e</sub> = 90 VAC); -2.3 %/K (> +50 °C and U <sub>e</sub> = 230 VAC) |
| Climatic category                       | 3K3 (per EN 60721; except for low air pressure)                                                 |

## Standards and specifications

|                          |            |
|--------------------------|------------|
| Conformity marking       | CE         |
| Standards/Specifications | EN 61204-3 |

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EN 60335-1  
EN 62368-1  
UL 60950-1  
UL 508

## Commercial data

|                       |               |
|-----------------------|---------------|
| Packaging type        | BOX           |
| Country of origin     | CN            |
| GTIN                  | 4055143804226 |
| Customs tariff number | 8504409510    |

## Approvals / Certificates

### UL-Approvals

| Logo                                                                               | Approval                             | Additional Approval Text | Certificate name |
|------------------------------------------------------------------------------------|--------------------------------------|--------------------------|------------------|
|    | UL<br>Underwriters Laboratories Inc. | UL 508                   | E255817          |
|  | UR<br>Underwriters Laboratories Inc. | UL 62368-1               | E255815          |

## Optional accessories

### Strain relief

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

### Ferrules

|                                                                                   |                                                                                                             |                                                                |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
|  | Item no.: 216-201<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> |
|  | Item no.: 216-202<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> |
|  | Item no.: 216-203<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> |
|  | Item no.: 216-204<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> |

Item no.: 216-301

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Ferrule; Sleeve for 0.25 mm<sup>2</sup> / AWG 24; insulated; electro-tin plated; yellow[www.wago.com/216-301](http://www.wago.com/216-301)**Item no.: 216-302**Ferrule; Sleeve for 0.34 mm<sup>2</sup> / 22 AWG; insulated; electro-tin plated; green[www.wago.com/216-302](http://www.wago.com/216-302)**Tools****Item no.: 210-720**

Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured

[www.wago.com/210-720](http://www.wago.com/210-720)**Item no.: 210-769**

SCREWDRIVER; green

[www.wago.com/210-769](http://www.wago.com/210-769)**Downloads****Documentation****Manual**DC Power Supply, 12 V  
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## Installation Notes

## Product family

### EPSITRON COMPACT Power

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

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