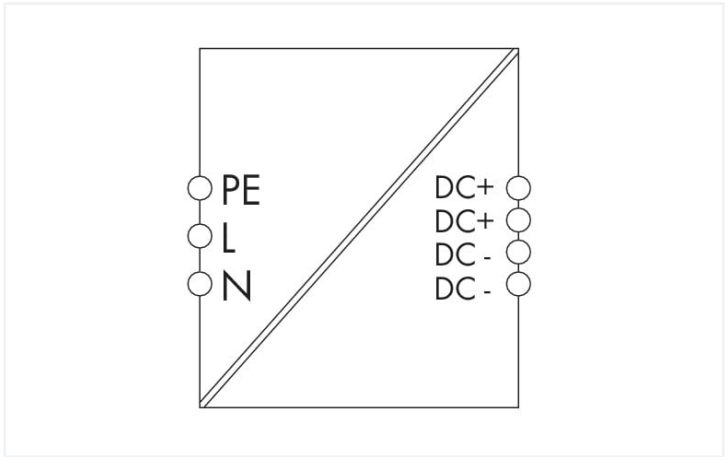




Features:

- Stepped profile for installation in standard distribution boards
- Pluggable *picoMAX*® Connection Technology (tool-free)
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per EN 60335-1; PELV per EN 60204

| Technical data                     |                                           |                                            |                                                                                                                                                         |
|------------------------------------|-------------------------------------------|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| Input                              |                                           | Output                                     |                                                                                                                                                         |
| Phases                             | 1                                         | Nominal output voltage $U_{o\,nom}$        | DC 12 V (SELV)                                                                                                                                          |
| Nominal input voltage $U_{i\,nom}$ | 1 x AC 100 ... 240 V; DC 140 ... 340 V    | Output voltage range                       | DC 10 ... 14 V (adjustable)                                                                                                                             |
| Input voltage range                | 1 x AC 90 ... 264 V; DC 125 ... 375 V     | Default setting                            | DC 12 V                                                                                                                                                 |
| Input voltage derating             | -2 %/V (< 100 VAC); -1.33 %/V (< 140 VDC) | Nominal output current $I_{o\,nom}$        | 8 A                                                                                                                                                     |
| Nominal mains frequency range      | 47 ... 63 Hz; 0 Hz                        | Nominal output power                       | 96 W                                                                                                                                                    |
| Input current $I_i$                | ≤ 1.6 A (100 VAC; 8 ADC)                  | Deviation                                  | ≤ 1 %                                                                                                                                                   |
| Discharge current                  | ≤ 0.25 mA                                 | Deviation, dynamic load change 10 ... 90 % | ≤ 1 %                                                                                                                                                   |
| Inrush current                     | ≤ 30 A (NTC)                              | Residual ripple                            | ≤ 100 mV (peak-to-peak)                                                                                                                                 |
| Power factor                       | ≥ 0.5                                     | Overload behavior                          | Constant power (in overload range: 1.05 ... 1.35 x $I_{o\,nom}$ ); Shutdown and automatic restart in the event of a short circuit or permanent overload |
| Power factor correction (PFC)      | Passive                                   |                                            |                                                                                                                                                         |
| Mains failure hold-up time         | ≥ 50 ms (230 VAC)                         |                                            |                                                                                                                                                         |

| Signaling and communication |                       | Efficiency/power losses        |                                                              |
|-----------------------------|-----------------------|--------------------------------|--------------------------------------------------------------|
| Signaling                   | 1 x LED DC OK (green) | Power loss $P_I$               | ≤ 0.7 W                                                      |
| Operation status indicator  | Green LED ( $U_o$ )   | Power loss (max.) $P_{I(max)}$ | 11.8 W (100 VAC / 12 VDC; 8 A)                               |
|                             |                       | Efficiency (typ.)              | 91.5 % (230 VAC; nominal load); 90 % (110 VAC; nominal load) |

| Circuit protection          |                                                                  |
|-----------------------------|------------------------------------------------------------------|
| Internal fuse               | T 3.15 A / 250 VAC                                               |
| Backup fusing (required)    | An external DC fuse is required for the DC input voltage.        |
| Backup fusing (recommended) | 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.-PE)       | DC 2.12 kV                                                                     |
| Protection class                  | I                                                                              |
| Protection type                   | IP20; per EN 60529                                                             |
| Resistance to reverse feed        | ≤ DC 16 V                                                                      |
| Overvoltage category              | II                                                                             |
| Pollution degree                  | 2                                                                              |
| Transient suppression (primary)   | Varistor                                                                       |
| Overvoltage protection; secondary | ≤ 20 VDC (in the event of a fault)                                             |
| Short-circuit-protected           | Yes                                                                            |
| Open-circuit-proof                | Yes                                                                            |
| Parallel operation                | Yes                                                                            |
| Series operation                  | Yes, for 2 devices of the same type                                            |
| MTBF                              | > 1,300,000 h (at 25 °C; per IEC 61709); > 250,000 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 mm² / 24 ... 12 AWG    |
| Fine-stranded conductor | 0.2 ... 2.5 mm² / 24 ... 12 AWG    |
| Strip length            | 9 ... 10 mm / 0.35 ... 0.39 inches |
| Cable length (max.)     | 30 m                               |

| Physical data                     |                        |
|-----------------------------------|------------------------|
| Width                             | 108 mm / 4.252 inches  |
| Height                            | 90 mm / 3.543 inches   |
| Depth                             | 56 mm / 2.205 inches   |
| Depth from upper-edge of DIN-rail | 52.5 mm / 2.067 inches |

| Mechanical data |                                   |
|-----------------|-----------------------------------|
| Housing design  | DIN-rail-mount enclosure          |
| Mounting type   | DIN-35 rail<br>Screw mount (back) |

| Material data               |         |
|-----------------------------|---------|
| Flammability class per UL94 | V0      |
| Fire load                   | 0 MJ    |
| Weight                      | 422.8 g |

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



| Standards and specifications |                                    |
|------------------------------|------------------------------------|
| Conformity marking           | CE                                 |
| Standards/specifications     | EN 61204-3<br>EN 60335-1<br>UL 508 |

| Commercial data       |               |
|-----------------------|---------------|
| ETIM 8.0              | EC002540      |
| ETIM 7.0              | EC002540      |
| PU (SPU)              | 1 pcs         |
| Packaging type        | Box           |
| Country of origin     | CN            |
| GTIN                  | 4055143863360 |
| Customs tariff number | 85044083900   |

| Environmental Product Compliance |                        |
|----------------------------------|------------------------|
| RoHS Compliance Status           | Compliant,No Exemption |

| Approvals / Certificates                                                          |                                  |                                                            |
|-----------------------------------------------------------------------------------|----------------------------------|------------------------------------------------------------|
| General approvals                                                                 |                                  | Declarations of conformity and manufacturer's declarations |
|  |                                  |                                                            |
| Approval                                                                          | Standard                         | Certificate Name                                           |
| EAC<br>Brjansker Zertifizierungs-<br>stelle                                       | TP TC 004/2011,TP TC<br>020/2011 | EAC RU C-DE.AM02.<br>B.00089_19                            |
| UL<br>Underwriters Laboratories<br>Inc.                                           | UL 508                           | E255817                                                    |

| Downloads                                    |                                                                                     |
|----------------------------------------------|-------------------------------------------------------------------------------------|
| Environmental Product Compliance             |                                                                                     |
| Compliance Search                            |                                                                                     |
| Environmental Product<br>Compliance 787-1221 |  |

| Documentation |            |                  |                            |                       |
|---------------|------------|------------------|----------------------------|-----------------------|
| Bid Text      |            |                  | Instruction Leaflet        |                       |
| 787-1221      | 30.07.2019 | xml<br>7.57 KB   | Stromversorgung<br>COMPACT | V 1.2.0<br>18.08.2020 |
|               |            |                  | pdf<br>2661.69 KB          |                       |
| 787-1221      | 30.07.2019 | docx<br>21.21 KB |                            |                       |



CAD/CAE-Data

|                          |
|--------------------------|
| CAD data                 |
| 2D/3D Models<br>787-1221 |



1 Compatible Products

1.1 Optional Accessories

1.1.1 Strain relief

1.1.1.1 Strain relief plate



**Item No.: 2092-1601**  
Gripping plate; for female and male connectors; 1 part; Pin spacing 5 mm; 3- to 4-pole; light gray

1.1.2 Tool

1.1.2.1 Operating tool



**Item No.: 210-720**  
Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured



**Item No.: 210-769**  
SCREWDRIVER; green