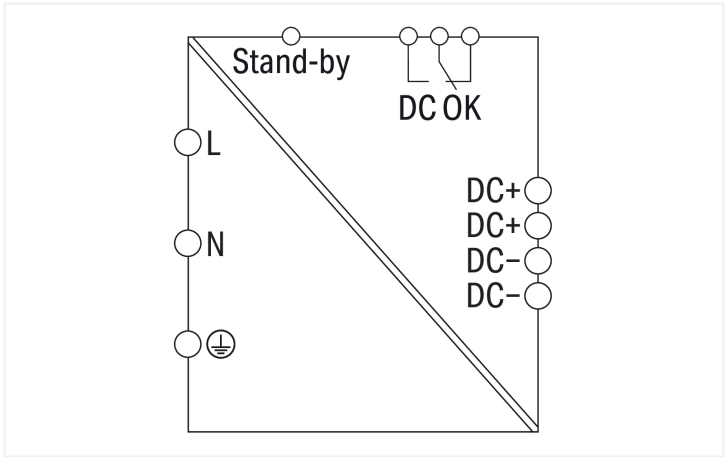




- Features:**
- Switched-mode power supply with PowerBoost and TopBoost
  - Switch off the output and minimize power consumption via stand-by input
  - Output monitoring via DC OK contact
  - Suitable for both parallel and series operation
  - Natural convection cooling when horizontally mounted
  - Encapsulated for use in control cabinets
  - Electrically isolated output voltage (SELV) per UL 60950-1; PELV per EN 60204

| Technical data                     |                                              |                                     |                                           |
|------------------------------------|----------------------------------------------|-------------------------------------|-------------------------------------------|
| Input                              |                                              | Output                              |                                           |
| Phases                             | 1                                            | Nominal output voltage $U_{o\ nom}$ | 48 VDC (SELV)                             |
| Nominal input voltage $U_{i\ nom}$ | 1 x 100 ... 240 VAC                          | Output voltage range                | 33 ... 52 VDC (adjustable)                |
| Input voltage range                | 1 x 85 ... 264 VAC; 120 ... 300 VDC          | Default Setting                     | DC 48 V                                   |
| Input voltage derating             | -1.5 %/V (< 110 VAC)                         | Nominal output current $I_{o\ nom}$ | 5 A (48 VDC)                              |
| Nominal mains frequency range      | 50 ... 60 Hz; 0 Hz                           | Nominal output power                | 240 W                                     |
| Input current $I_i$                | ≤ 1.2 A (230 VAC; 5 ADC)                     | Deviation                           | ≤ 1 %                                     |
| Discharge current                  | ≤ 1 mA                                       | Residual ripple                     | ≤ 70 mV (peak-to-peak)                    |
| Inrush current                     | ≤ 8 A (active power factor correction (PFC)) | Current limitation                  | 1.1 x $I_{o\ nom}$ (typ.)                 |
| Power factor correction (PFC)      | Active                                       | Overload behavior                   | TopBoost/PowerBoost/Constant current mode |
| Mains failure hold-up time         | ≥ 20 ms (230 VAC)                            | PowerBoost                          | DC 10 A (4 s); DC 7.5 A (8 s)             |
|                                    |                                              | TopBoost                            | 30 ADC (25 ms)                            |

| Signaling and communication |                                                                                                                    |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------|
| Signaling                   | 1 x DC OK LED (green)<br>1 x Error LED (red)<br>1 x Stand-by input<br>1 x DC OK relay contact (changeover contact) |
| Operation status indicator  | Green LED (DC OK)<br>Red LED (error)                                                                               |

| Efficiency/power losses |                                                               |
|-------------------------|---------------------------------------------------------------|
| Power loss $P_i$        | ≤ 0.8 W (standby); ≤ 7.4 W (no load); ≤ 21.6 W (nominal load) |
| Efficiency (typ.)       | 91 %                                                          |



| Circuit protection        |                                                                   |
|---------------------------|-------------------------------------------------------------------|
| Internal fuse             | T 6.3 A / 250 VAC                                                 |
| Pre-fuse (required)       | An external DC fuse is required for the DC input voltage.         |
| Backup fuse (recommended) | Circuit breaker: 6 A, 10 A, 16 A; Tripping characteristic: B or C |

| Safety and protection           |                             |
|---------------------------------|-----------------------------|
| Isolation voltage (pri.-sec.)   | DC 4.242 kV                 |
| Isolation voltage (pri.-PE)     | DC 2.2 kV                   |
| Isolation voltage (sec.-PE)     | 0.7 kVDC                    |
| Protection class                | I                           |
| Protection type                 | IP20; Per EN 60529          |
| Resistance to reverse feed      | ≤ 63 VDC                    |
| Overvoltage category            | II                          |
| Pollution degree                | 2                           |
| Transient suppression (primary) | Varistor                    |
| Short-circuit-protected         | Yes                         |
| Open-circuit-proof              | Yes                         |
| Parallel operation              | Yes                         |
| Series operation                | Yes                         |
| MTBF                            | > 500,000 h (per IEC 61709) |

| Connection data         |                                   |                         |                                  |
|-------------------------|-----------------------------------|-------------------------|----------------------------------|
| Connection 1            |                                   | Connection 2            |                                  |
| Connection type         | Input/output                      | Connection type         | Signaling                        |
| Connection technology   | CAGE CLAMP®                       | Connection technology   | CAGE CLAMP®                      |
| WAGO connector          | WAGO 231 Series                   | WAGO connector          | WAGO 733 Series                  |
| Solid conductor         | 0.08 ... 2.5 mm² / 28 ... 12 AWG  | Solid conductor         | 0.08 ... 0.5 mm² / 28 ... 20 AWG |
| Fine-stranded conductor | 0.08 ... 2.5 mm² / 28 ... 12 AWG  | Fine-stranded conductor | 0.08 ... 0.5 mm² / 28 ... 20 AWG |
| Strip length            | 8 ... 9 mm / 0.31 ... 0.35 inches | Strip length            | 5 ... 6 mm / 0.2 ... 0.24 inches |

| Physical data                     |                       |
|-----------------------------------|-----------------------|
| Width                             | 57 mm / 2.244 inches  |
| Height                            | 163 mm / 6.417 inches |
| Depth from upper-edge of DIN-rail | 179 mm / 7.047 inches |
| Note (dimensions)                 | Height with connector |

| Mechanical data |             |
|-----------------|-------------|
| Mounting type   | DIN-35 rail |



| Material data |        |
|---------------|--------|
| Fire load     | 0 MJ   |
| Weight        | 1475 g |

| Environmental requirements      |                                                        |
|---------------------------------|--------------------------------------------------------|
| Ambient temperature (operation) | -25 ... +70 °C (Device starts at -40 °C (type-tested)) |
| Ambient temperature (storage)   | -25 ... +85 °C                                         |
| Relative humidity               | 5 ... 96 % (no condensation permissible)               |
| Derating                        | -3 %/K (> 50 °C)                                       |
| Climatic category               | 3K3 (per EN 60721)                                     |

| Standards and specifications |                                                                                   |
|------------------------------|-----------------------------------------------------------------------------------|
| Conformity marking           | CE                                                                                |
| Standards/specifications     | EN 61010-1<br>EN 61010-2-201<br>EN 61204-3<br>EN 61558-2-16<br>UL 60950<br>UL 508 |

| Commercial data       |                          |
|-----------------------|--------------------------|
| Product Group         | 6 (INTERFACE ELECTRONIC) |
| PU (SPU)              | 1 pcs                    |
| Packaging type        | Box                      |
| Country of origin     | DE                       |
| GTIN                  | 4050821226468            |
| Customs tariff number | 85044083900              |

| Product Classification |                      |
|------------------------|----------------------|
| UNSPSC                 | 39121004             |
| eCl@ss 10.0            | 27-04-07-01          |
| eCl@ss 9.0             | 27-04-07-01          |
| ETIM 9.0               | EC002540             |
| ETIM 8.0               | EC002540             |
| ECCN                   | NO US CLASSIFICATION |

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

Approvals / Certificates

| General approvals                                                                                                                                                                                                                                          |                |                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|------------------|
|    |                |                  |
| Approval                                                                                                                                                                                                                                                   | Standard       | Certificate Name |
| EAC<br>GZO Almaty Standart                                                                                                                                                                                                                                 | TP TC 004/2011 | EAC CoC 03078    |
| EAC<br>GZO Almaty Standart                                                                                                                                                                                                                                 | TP TC 020/2011 | EAC CoC 03081    |
| UL<br>Underwriters Laboratories Inc.                                                                                                                                                                                                                       | UL 508         | E255817          |

| General approvals                    |            |         |
|--------------------------------------|------------|---------|
| UR<br>Underwriters Laboratories Inc. | UL 60950-1 | E255815 |



Declarations of conformity and manufacturer's declarations

| Approval                                                | Standard | Certificate Name |
|---------------------------------------------------------|----------|------------------|
| EU-Declaration of Confor-<br>mity<br>WAGO GmbH & Co. KG | -        | -                |

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1 Compatible Products

1.1 Optional Accessories

1.1.1 Marking

1.1.1.1 Marking strip



**Item No.: 2009-110**  
Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white



**Item No.: 210-831**  
Marking strips; on reel; 2.3 mm wide; plain; Self-adhesive; white



**Item No.: 210-832**  
Marking strips; on reel; 3 mm wide; plain; Self-adhesive; white

1.1.2 Mounting adapter

1.1.2.1 DIN-rail adapter



**Item No.: 787-897**  
Carrier rail adapter made of zinc die-cast; for mounting 787-8xx devices to a DIN 35 rail; gray



**Item No.: 787-896**  
Carrier rail adapter; for mounting 787-8xx devices to a DIN 35 rail; gray

1.1.2.2 Wall-mount adapter



**Item No.: 787-895**  
Mounting carrier; for screw fixing of 787-8xx devices on mounting plate or wall without DIN 35 rail; gray

1.1.3 Tool

1.1.3.1 Operating tool



**Item No.: 210-719**  
Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft



**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