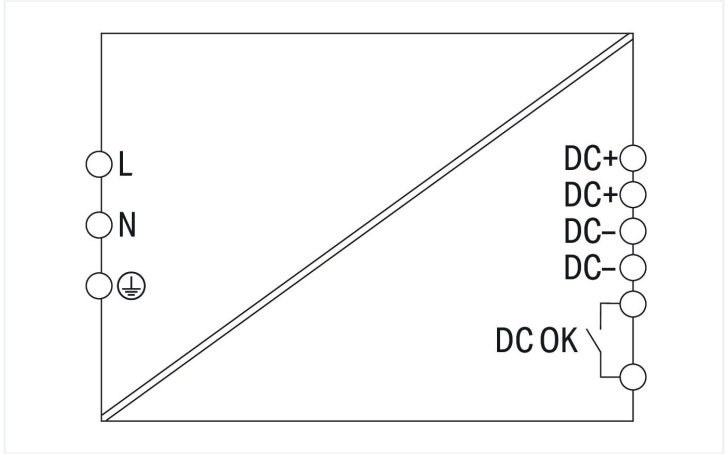




- Features:**
- Switched-mode power supply
  - Natural convection cooling when horizontally mounted
  - Encapsulated for use in control cabinets
  - DC OK contact
  - Suitable for both parallel and series operation
  - Electrically isolated output voltage (SELV) per UL 60950-1; PELV per EN 60204
  - DNV approval

| Technical data                     |                                                                                |                                     |                                                     |
|------------------------------------|--------------------------------------------------------------------------------|-------------------------------------|-----------------------------------------------------|
| Input                              |                                                                                | Output                              |                                                     |
| Phases                             | 1                                                                              | Nominal output voltage $U_{o\ nom}$ | 24 VDC (SELV)                                       |
| Nominal input voltage $U_{i\ nom}$ | 1 x 100 ... 240 VAC                                                            | Output voltage range                | 23 ... 28.5 VDC (adjustable)                        |
| Input voltage range                | 1 x 85 ... 264 VAC; 120 ... 300 VDC                                            | Default Setting                     | DC 24 V                                             |
| Input voltage derating             | -1.8 %/V (< 105 VAC)                                                           | Nominal output current $I_{o\ nom}$ | 20 A (24 VDC)                                       |
| Nominal mains frequency range      | 44 ... 66 Hz; 0 Hz                                                             | Nominal output power                | 480 W                                               |
| Input current $I_i$                | $\leq 2.23$ A (230 VAC); $\leq 5.56$ A (100 VAC)                               | Deviation                           | $\leq 1$ %                                          |
| Discharge current                  | $\leq 1$ mA                                                                    | Residual ripple                     | $\leq 70$ mV (peak-to-peak)                         |
| Inrush current                     | $\leq 30$ A                                                                    | Current limitation                  | $1.1 \times I_{o\ nom}$ (typ.)                      |
| Power factor correction (PFC)      | Active                                                                         | Overload behavior                   | Constant current                                    |
| Mains failure hold-up time         | $\geq 20$ ms (230 VAC); $\geq 8$ ms (100 VAC)                                  | TopBoost                            | See instruction leaflet                             |
| Signaling and communication        |                                                                                | Efficiency/power losses             |                                                     |
| Signaling                          | 1 x LED DC OK (green)<br>1 x DC OK contact (make contact; max. 30 VAC/DC; 1 A) | Power loss $P_l$                    | $\leq 7.2$ W; $\leq 42.4$ W (230 VAC; nominal load) |
| Operation status indicator         | Green LED ( $U_o$ )                                                            | Power loss (max.) $P_{l\ (max.)}$   | 68.3 W (100 VAC / 24 VDC; 20 A)                     |
|                                    |                                                                                | Efficiency (typ.)                   | 92 %                                                |
| Circuit protection                 |                                                                                |                                     |                                                     |
| Internal fuse                      | T 10 A / 250 VAC                                                               |                                     |                                                     |
| Backup fusing (required)           | An external DC fuse is required for the DC input voltage.                      |                                     |                                                     |
| Backup fusing (recommended)        | Circuit breaker: 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        |  | ≤ 35 VDC                                                          |
| Overvoltage category              |  | II                                                                |
| Pollution degree                  |  | 2                                                                 |
| Transient suppression (primary)   |  | Varistor                                                          |
| Overvoltage protection; secondary |  | Internal protective circuit<br>≤ 40 VDC (in the event of a fault) |
| Short-circuit-protected           |  | Yes                                                               |
| Open-circuit-proof                |  | Yes                                                               |
| Parallel operation                |  | Yes                                                               |
| Series operation                  |  | Yes                                                               |
| MTBF                              |  | > 500,000 h (per IEC 61709)                                       |

| Connection data         |  |                                                                          |
|-------------------------|--|--------------------------------------------------------------------------|
| Connection type 1       |  | Input/signaling                                                          |
| Connection technology   |  | CAGE CLAMP®<br>Push-in CAGE CLAMP®                                       |
| WAGO connector          |  | WAGO 721 Series                                                          |
| Solid conductor         |  | 0.08 ... 2.5 mm² / 28 ... 12 AWG<br>0.5 ... 10 mm² / 20 ... 8 AWG        |
| Fine-stranded conductor |  | 0.08 ... 2.5 mm² / 28 ... 12 AWG<br>0.5 ... 10 mm² / 20 ... 8 AWG        |
| Strip length            |  | 8 ... 9 mm / 0.31 ... 0.35 inches<br>13 ... 15 mm / 0.51 ... 0.59 inches |
| Connection type         |  | Output                                                                   |
| WAGO connector 2        |  | WAGO 831 Series                                                          |

| Physical data                     |  |                       |
|-----------------------------------|--|-----------------------|
| Width                             |  | 95 mm / 3.74 inches   |
| Height                            |  | 127 mm / 5 inches     |
| Depth from upper-edge of DIN-rail |  | 170 mm / 6.693 inches |

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

| Material data |  |        |
|---------------|--|--------|
| Fire load     |  | 0 MJ   |
| Weight        |  | 1600 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                        | -5 %/K (> 60 °C, 196 ... 264 VAC); -2.5 %/K (> 50 °C, 85 ... 195 VAC) |
| 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>UL 60950-1<br>UL 508<br>DNV<br>SEMI F47 |

| Commercial data       |                          |
|-----------------------|--------------------------|
| Product Group         | 6 (INTERFACE ELECTRONIC) |
| eCl@ss 10.0           | 27-04-07-01              |
| eCl@ss 9.0            | 27-04-07-01              |
| ETIM 9.0              | EC002540                 |
| ETIM 8.0              | EC002540                 |
| PU (SPU)              | 1 pcs                    |
| Packaging type        | Box                      |
| Country of origin     | DE                       |
| GTIN                  | 4055143060530            |
| 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>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                                                    |
| UR<br>Underwriters Laboratories Inc.                                                                                                                                                                                                                       | UL 60950-1     | E255815                                                    |

| Approval                               | Standard | Certificate Name |
|----------------------------------------|----------|------------------|
| MFD for SEMI F47<br>WAGO GmbH & Co. KG | -        | -                |



Approvals for marine applications



| Approval                | Standard              | Certificate Name |
|-------------------------|-----------------------|------------------|
| DNV<br>DNV Germany GmbH | DNVGL-CG-339,Dec.2019 | TAA00002YC       |

Downloads

Environmental Product Compliance

| Compliance Search                            |
|----------------------------------------------|
| Environmental Product<br>Compliance 787-1634 |

Documentation

| Bid Text |            |                  |                   |
|----------|------------|------------------|-------------------|
| 787-1634 | 04.07.2019 | xml<br>7.18 KB   | <a href="#">↓</a> |
| 787-1634 | 04.06.2019 | docx<br>21.00 KB | <a href="#">↓</a> |

| Instruction Leaflet                              |                  |                   |  |
|--------------------------------------------------|------------------|-------------------|--|
| Primär getaktete<br>Stromversorgungen<br>CLASSIC | pdf<br>251.28 KB | <a href="#">↓</a> |  |

CAD/CAE-Data

| CAD data                 |
|--------------------------|
| 2D/3D Models<br>787-1634 |

| CAE data                      |
|-------------------------------|
| EPLAN Data Portal<br>787-1634 |
| WSCAD Universe<br>787-1634    |
| ZUKEN Portal<br>787-1634      |

Engineering-Software

| Configuration and Commissioning Software |                     |                  |                                                                                                     |
|------------------------------------------|---------------------|------------------|-----------------------------------------------------------------------------------------------------|
| WAGO Line Length Calculation             | 1.3.5<br>09.12.2019 | exe<br>329.50 KB | <a href="#"></a> |



1 Compatible Products

1.1 Optional Accessories

1.1.1 Marking

1.1.1.1 Marker



**Item No.: 2009-145**  
Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white



**Item No.: 248-501**  
Mini-WSB marking card; as card; not stretchable; plain; snap-on type; white



**Item No.: 793-5501**  
WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; white



**Item No.: 793-501**  
WMB marking card; as card; not stretchable; plain; snap-on type; white



**Item No.: 2009-115**  
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white

1.1.1.2 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.: 787-897/000-010**  
Carrier rail adapter made of zinc die-cast; horizontal mounting of 787-16xx (TS35)

1.1.3 Tool

1.1.3.1 Operating tool



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



**Item No.: 210-721**  
Operating tool; Blade: 5.5 x 0.8 mm; with a partially insulated shaft; multicoloured



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