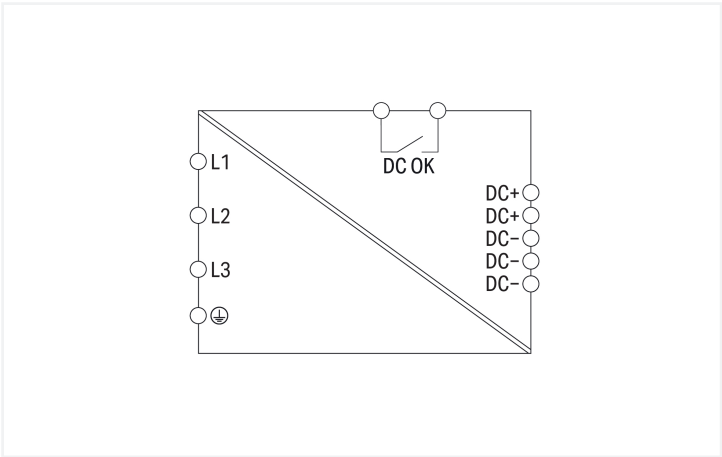




- Features:**
- Natural convection cooling when horizontally mounted
  - Encapsulated for use in control cabinets
  - Fast and tool-free termination via lever-actuated PCB terminal blocks
  - Bounce-free switching signal (DC OK) via optocoupler
  - Parallel operation
  - Electrically isolated output voltage (SELV) per UL 60950-1; PELV per EN 60204

| Technical data                     |                                                   |                                     |                                                                                                                                  |
|------------------------------------|---------------------------------------------------|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Input                              |                                                   | Output                              |                                                                                                                                  |
| Phases                             | 2 / 3                                             | Nominal output voltage $U_{o\ nom}$ | 24 VDC (SELV)                                                                                                                    |
| Nominal input voltage $U_{i\ nom}$ | (2 / 3) x 340 ... 500 VAC                         | Output voltage range                | 22 ... 28 VDC (adjustable)                                                                                                       |
| Input voltage range                | (2 / 3) x 306 ... 550 VAC; 500 ... 650 VDC        | Default Setting                     | 24 VDC                                                                                                                           |
| Nominal mains frequency range      | 47 ... 63 Hz; 0 Hz                                | Nominal output current $I_{o\ nom}$ | 6.25 A (24 VDC)                                                                                                                  |
| Input current $I_i$                | $\leq 3 \times 0.6\ A$ (400 VAC; 24 VDC / 6.25 A) | Nominal output power                | 150 W                                                                                                                            |
| Discharge current                  | $\leq 3.5\ mA$                                    | Deviation                           | $\leq 1\ \%$                                                                                                                     |
| Power factor                       | $\geq 0.5$                                        | Residual ripple                     | $\leq 100\ mV$ (peak-to-peak)                                                                                                    |
| Power factor correction (PFC)      | Passive                                           | Overload behavior                   | Constant power (in overload range: 1.15 ... 1.4 x $I_{o\ nom}$ ); Shutdown and automatic restart in the event of a short circuit |
| Mains failure hold-up time         | $\geq 17\ ms$ (3 x 400 VAC)                       |                                     |                                                                                                                                  |

| Signaling and Communication |                                                                                                                              |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------|
| Signaling                   | 1 x DC OK LED (green)<br>1 x Overload LED (red)<br>1 x Signal output DC OK (optocoupler as make contact; max. 31.2 V; 20 mA) |
| Operation status indicator  | Green LED ( $U_o$ )<br>Red LED (overload)                                                                                    |

| Efficiency/Power Losses           |                |
|-----------------------------------|----------------|
| Power loss $P_i$                  | $\leq 18.5\ W$ |
| Power loss (max.) $P_{i\ (max.)}$ | 20 W           |
| Efficiency (typ.)                 | 87 %           |



| Circuit Protection        |                                                                                                  |
|---------------------------|--------------------------------------------------------------------------------------------------|
| Internal fuse             | 3 x T 2 A / 250 VAC                                                                              |
| Pre-fuse (required)       | An external DC fuse is required for the DC input voltage.                                        |
| Backup fuse (recommended) | 3 x Circuit breaker ≥ 6 A; Tripping characteristic: B or C<br>Alternative: motor circuit breaker |

| Safety and protection           |                             |
|---------------------------------|-----------------------------|
| Isolation voltage (pri.-sec.)   | 4.242 kVDC                  |
| Isolation voltage (pri.-PE)     | 2.2 kVDC                    |
| Isolation voltage (sec.-PE)     | 0.7 kVDC                    |
| Isolation voltage (sec.-signal) | 0.7 kVDC                    |
| Protection class                | I                           |
| Protection type                 | IP20; per EN 60529          |
| Resistance to reverse feed      | ≤ 30 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                            | > 250,000 h (per IEC 61709) |

| Connection Data         |                                     |                         |                                   |
|-------------------------|-------------------------------------|-------------------------|-----------------------------------|
| Connection 1            |                                     | Connection 2            |                                   |
| Connection type         | Input/output                        | Connection type         | Signaling                         |
| Connection technology   | CAGE CLAMP®                         | Connection technology   | Push-in CAGE CLAMP®               |
| WAGO connector          | WAGO 2706 Series                    | WAGO connector          | picoMAX® 3.5 (WAGO 2091 Series)   |
| Solid conductor         | 0.5 ... 6 mm² / 20 ... 10 AWG       | Solid conductor         | 0.2 ... 1.5 mm² / 24 ... 14 AWG   |
| Fine-stranded conductor | 0.5 ... 6 mm² / 20 ... 10 AWG       | Fine-stranded conductor | 0.2 ... 1.5 mm² / 24 ... 14 AWG   |
| Strip length            | 11 ... 12 mm / 0.43 ... 0.47 inches | Strip length            | 8 ... 9 mm / 0.31 ... 0.35 inches |

| Physical data                     |                       |
|-----------------------------------|-----------------------|
| Width                             | 50 mm / 1.969 inches  |
| Height                            | 130 mm / 5.118 inches |
| Depth from upper-edge of DIN-rail | 92 mm / 3.622 inches  |

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



| Material data |       |
|---------------|-------|
| Fire load     | 0 MJ  |
| Weight        | 844 g |

| Environmental requirements      |                                           |
|---------------------------------|-------------------------------------------|
| Ambient temperature (operation) | -25 ... +70 °C                            |
| Ambient temperature (storage)   | -40 ... +85 °C                            |
| Relative humidity               | 10 ... 95 % (no condensation permissible) |
| Derating                        | -2.5 %/K (> 50 °C; 400 VAC)               |
| Climatic category               | 3K3 (per EN 60721)                        |

| Standards and Specifications |                                                                        |
|------------------------------|------------------------------------------------------------------------|
| Conformity marking           | CE                                                                     |
| Standards/specifications     | EN 62368-1<br>EN 61204-3 (Class A)<br>UL 60950-1<br>UL 508<br>SEMI F47 |

| Commercial data       |               |
|-----------------------|---------------|
| PU (SPU)              | 1 pcs         |
| Packaging type        | Box           |
| Country of origin     | CN            |
| GTIN                  | 4050821847861 |
| 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 10.0              | EC002540             |
| ECCN                   | NO US CLASSIFICATION |

| Environmental Product Compliance          |                                      |
|-------------------------------------------|--------------------------------------|
| RoHS Compliance Status                    | Compliant, No Exemption              |
| SCIP notification number (Bulgaria)       | 6ad76c2f-5e1d-4e81-863e-4937bfb36fc5 |
| SCIP notification number (Czech Republic) | 3cb75b15-0728-4ff4-a13e-55912c975eb3 |

| Approvals / Certificates                                                                                                                                                                                                                                   |                |                                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------------------------------------|
| General approvals                                                                                                                                                                                                                                          |                | General approvals                       |
|    |                | UR<br>Underwriters Laboratories<br>Inc. |
|                                                                                                                                                                                                                                                            | UL 60950-1     | E255815                                 |
| 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<br>Inc.                                                                                                                                                                                                                    | UL 508         | E255817                                 |



Declarations of conformity and manufacturer's declarations

| Approval                                                | Standard | Certificate Name |
|---------------------------------------------------------|----------|------------------|
| EU-Declaration of Confor-<br>mity<br>WAGO GmbH & Co. KG | -        | -                |
| MFD for SEMI F47<br>WAGO GmbH & Co. KG                  | -        | -                |

Downloads

Environmental Product Compliance

| Compliance Search                           |
|---------------------------------------------|
| Environmental Product<br>Compliance 787-738 |



Documentation

| Bid Text         |
|------------------|
| 787-738          |
| 12.07.2019       |
| xml<br>7.26 KB   |
| 787-738          |
| 12.07.2019       |
| docx<br>23.13 KB |



| Instruction Leaflet                               |
|---------------------------------------------------|
| Primary Switch Mode<br>Power Supply ECO-<br>Power |
| V 1.3.5<br>21.12.2020                             |
| pdf<br>280.65 KB                                  |



CAD/CAE-Data

| CAD data             |
|----------------------|
| 2D/3D Models 787-738 |



| CAE data                     |
|------------------------------|
| EPLAN Data Portal<br>787-738 |
| WSCAD Universe<br>787-738    |
| ZUKEN Portal 787-738         |



1 Compatible Products

1.1 Optional Accessories

1.1.1 Tool

1.1.1.1 Operating tool



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

Item No.: 210-769  
SCREWDRIVER; green

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

Current addresses can be found at: [www.wago.com](https://www.wago.com)