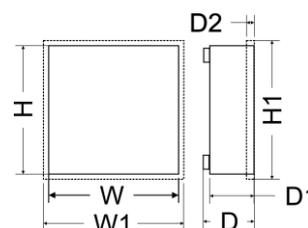


**CODE: AWZ 222 v.2.0**  
**TYPE: PSU-B/A-13.8V/L-2A/1/EL-TR-17Ah/MC**



PN-EN 50131-6



## DESCRIPTION

The buffer power supply unit is destined for uninterruptible supplying devices requiring stabilized voltage 12 V/DC (+/-15%). The power supply unit supplies voltage  $U = 11.0 \text{ V} - 13.8 \text{ V DC}$  (10.0 V-13.8 V DC battery operation) of total current efficiency 2 A. In case of network power supply failure, immediate switching over to battery supply takes place. The power supply unit is equipped with protections: short-circuit protection (SCP), overload protection (OLP), over heating protection (OHP), over-voltage protection (OVP). It is adapted for cooperation with lead-acid, dry battery (SLA). The power supply unit automatically controls the process of charging and maintaining the battery, it is also equipped with dynamic battery test and protection against excessive discharge (UVP). Moreover, it is equipped with optical and acoustic signaling informing about operation status. The power supply unit is equipped with technical outputs (BS, AW) destined for remote operation control (SSWiN, KD). The power supply unit is enclosed in a metal, flush mounted casing with space for the battery. The casing is equipped with a microswitch signaling opening the door (front panel).

## TECHNICAL DATA

|   |   |
|---|---|
| <b>Casing:</b>                              | metal, IP20, color RAL9003,   |
| <b>Dimensions:</b>                          | W=230,H=300, D=98, W1=235, H1=305, D1=90 mm, D2=14 [mm, ±2]   |
| <b>Net/ gross weight:</b>                   | 2.9 / 3.1 [kg]  |
| <b>Space for battery:</b>                   | 17 Ah/12 V lead-acid, dry (SLA), EUROPOWER EP 17-12   |
| <b>Antisabotage protection:</b>             | 1 x microswitch: opening the casing, 0.5 A@50 V/DC max. NC cont.  |
| <b>Closing:</b>                             | screwed: cheese screw x 1   |
| <b>Remarks:</b>                             | distance from wall (ground) 8 mm  |
| <b>Power supply:</b>                        | 230 V/AC (-15%/+10%), 50 Hz, 0.29 A max. (3.5 A "cold start-up")  |
| <b>Transformer:</b>                         | TR 50 VA/17V  |
| <b>Power of the power supply unit:</b>      | P=28 W max.   |
| <b>Type of the power supply unit:</b>       | A, 1st stage (EPS- External Power Source)   |
| <b>Output voltage:</b>                      | 11.0V-13.8VDC-buffer, 10.0 V-13.8 VDC battery, $V_{pp} < 250 \text{ mV}$ ( $\pm 1\%$ )                                |
| <b>Output current:</b>                      | 2.0 A max (1st stage $I_d = 1.55 \text{ A}$ )   |
| <b>Number of supply outputs:</b>            | 1   |
| <b>Current charging the battery:</b>        | 450 mA/900mA max (17 Ah@U <sub>bat</sub> =10 V)   |
| <b>Current consumption by the PSU:</b>      | 15 mA max   |
| <b>Short-circuit protection (SCP, OCP):</b> | 200% + 250% of the PSU power + F1: fuse in the battery circuit  |
| <b>Overload protection (OLP):</b>           | 110% + 150% of the PSU power, PTC + F2: fuse in the 230 VAC circ.   |
| <b>Over-voltage protection (OVP):</b>       | $U > 14.5 \text{ V}$ -failure signaling, $U > 17\text{V}$ : disconnecting supply output ( $\pm 5\%$ )                 |
| <b>Supervoltage protection:</b>             | varistors   |
| <b>Battery protection (UVP):</b>            | $U < 10\text{V}$ (-5%/+5%), disconnection delay adjustment: 20 s/15 m/1 h/off   |
| <b>Technical output BS (AC failure):</b>    | NO, signaling delay adjustment: 0 s/5 min/1 h/6 h   |
| <b>Technical output AW (failure):</b>       | NC, failure signaling: battery (no, negative test), supply output (operation: SCP/OCP/OVP/UVP), exceeding max. temp.  |
| <b>Type of technical outputs:</b>           | OC, 50 mA (max.)  |
| <b>Acoustic signaling of operation:</b>     | piezoelectric signaling device (~75 dB/0.3 m)   |
| <b>Optical signaling of operation:</b>      | LED: AC/DC supply status, failure   |
| <b>Operating conditions:</b>                | 1st environmental class, 5°C+ 40°C  |
| <b>Certificates, declarations:</b>          | Certificate: PN-EN 50131-6, CE, decl. RoHS  |
| <b>Remarks:</b>                             | PSU cooling: convection, battery output: connectors 6.3 F-2.5<br>Outputs: connectors $\Phi 0.51 \pm 2.05$ (AWG 24-12) |