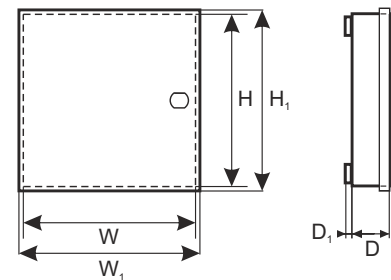


CODE: **AWZG2** v.1.0/l
TYPE: **Buffer power supply unit Grade 2**

EN



Features:

- compliance with norm EN50131-6:2017 in grade 1,2 and II environment class
- compliance with norm EN60839-11:2013 in grade 1,2 and II environment class
- supply voltage ~230 V
- DC 13,8 V or 27,6 V uninterruptible power supply
- available versions with space for **7 Ah – 40 Ah** batteries
- available versions with current efficiencies:
 - **13,8 V: 2A/3A/5A**
 - **27,6 V: 2A/3A**
- microprocessor-based automation system
- dynamic battery test
- battery circuit continuity control
- battery voltage control
- battery fuse status control
- battery charging and maintenance control
- deep discharge battery protection (UVP)
- battery output protection against short circuit and reverse connection
- battery charging current jumper selectable
- START function of manual switch to battery power
- LED optical indication
- START facility for manual battery connection
- APS technical output indicating battery failure – OC type
- optional module AWZ639 changing OC outputs into relay outputs
- protections:
 - SCP short-circuit protection
 - OLP overload protection
 - over voltage protection
 - surge protection
 - against sabotage: unwanted enclosure opening
- warranty – 5 years from the production date

Description

The buffer power supply is designed in accordance with the requirements of the (I&HAS) EN50131-6:2017 and (KD) EN60839-11:2013 standard, grade 1+2 and II environmental class. The power supplies units are intended for an uninterrupted supply of I&HAS i KD devices requiring stabilized voltage of 12 or 24 V DC ($\pm 15\%$).

DISPLAYING PARAMETERS OF THE POWER SUPPLY:

| PSU's name | Output voltage | Output current max. | Output current (in standby mode for grade 2 EN50131-6, EN60839-11) |
|---------------|----------------|---------------------|--|
| AWZG2-12V2A-B | 13,8 V | 2 A | 0,58 A |
| AWZG2-12V3A-C | 13,8 V | 3 A | 1,41 A |
| AWZG2-12V5A-C | 13,8 V | 5 A | 1,41 A |
| AWZG2-12V5A-D | 13,8 V | 5 A | 3,33 A |
| AWZG2-24V2A-B | 27,6 V | 2 A | 0,58 A |
| AWZG2-24V3A-C | 27,6 V | 3 A | 1,41 A |

Total current of the receivers + battery charging current mustn't cross maximum current of power supply.

| TECHNICAL DATA | AWZG2-12V | AWZG2-24V |
|--|--|---|
| PSU type: | A (EPS - External Power Source), protection class 1-2, II environmental class | |
| Power supply: | ~230 V | |
| Output voltage: | 11 - 13,8 V – buffer operation 10 - 13,8 V – battery-assisted operation | 22 - 27,6 V – buffer operation 20 - 27,6 V – battery-assisted operation |
| Voltage adjustment range: | 13 – 14 V | 27 – 28 V |
| Current consumption by PSU during battery – assisted operation: | 11mA | 14mA |
| Low battery voltage indication: | U _{bat} < 11,5 V, during battery operation | U _{bat} < 23 V, during battery operation |
| Battery circuit protection SCP and reverse polarity connection: | F _{BAT} fuse (in case of a failure, fuse-element replacement required) | |
| Deep discharge battery protection UVP: | U < 10 V (± 0,5V) – disconnection of battery terminal | U < 20 V (± 0,5V) – disconnection of battery terminal |
| Technical outputs: EPS; output indicating AC power failure | OC type: 50mA max. normal status: L (0V) level, failure: hi-Z level | |
| APS; output indicating battery failure | OC type: 50mA max. normal status: L (0V) level, failure: hi-Z level | |
| Tamper protection: TAMPER indicates enclosure opening | microswitch, NC contacts (enclosure closed), 0,5 A@50 V DC (max.) | |
| Optical indication: | LEDs on PCB of power supply unit LED indicators on power supply's cover | |
| Operating conditions: | II environmental class (PN-EN12101-10:2007), -5°C ÷ 40°C | |
| Protection class EN 60950-1:2007: | I (first) | |
| Degree of Protection EN 60529: 2002 (U): | IP20 | |
| Operating temperature: | -10°C...+40°C | |
| Storage temperature: | -20°C...+60°C | |
| Vibrations and impulse waves during transport: | Wg PN-83/T-42106 | |
| Enclosure: | Steel sheet DC01 0,7–1,0mm, color: RAL 9003 | |
| Closing: | Cheese head screw x 2 (at the front), (lock assembly possible) | |
| Declarations, warranty: | CE, 5 years from production date | |
| Notes: | Enclosure does not adjoin assembly surface so that cables can be led. Convectional cooling. | |