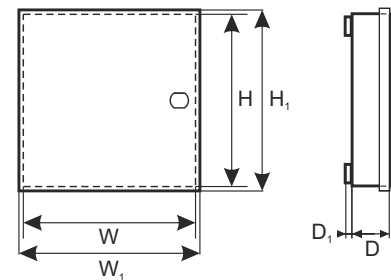


CODE: **AWZG2** v.1.0/l  
TYPE: **Buffer power supply unit Grade 2**

**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 <sub>bat</sub> < 11,5 V, during battery operation	U <sub>bat</sub> < 23 V, during battery operation
Battery circuit protection SCP and reverse polarity connection:	F <sub>BAT</sub> 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.	