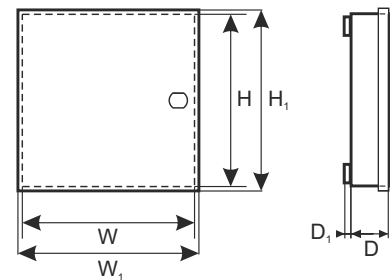


CODE: **AWZG2** v.1.0/II
NAME: **Buffer power supply unit Grade 2**

EN



Features:

- compliance with norm EN50131-6:2017 in grade 1,2 and II environment class
- compliance with norm (KD) EN60839-11-2:2015+AC:2015 standard and I 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
 - against sabotage: unwanted enclosure opening
- warranty – 5 years from production date

DESCRIPTION

The buffer power supply is designed in accordance with the requirements of the (I&HAS) EN50131-6:2017 grade 1,2, II environmental class and EN60839-11-2:2015+AC:2015, I environmental class. The power supplies units are intended for for an uninterrupted supply of I&HAS and KD devices requiring stabilized voltage of 12 V or 24 V DC ($\pm 15\%$).

DISPLAYING PARAMETERS OF THE POWER SUPPLY:

PSU's name	Output voltage	Charging current	Output current	Total output current with charging
			Output current for grade 1, 2 EN50131-6	
AWZG2-12V2A-B	13,8 V	0,2 / 0,5 A	0,58 A	2 A
AWZG2-12V3A-C		0,5 / 1 A	1,41 A	3 A
AWZG2-12V5A-C		0,5 / 1 / 2 A	1,41 A	5 A
AWZG2-12V5A-D		0,5 / 1 / 2 A	3,33 A	5 A
AWZG2-24V2A-B	27,6 V	0,5 / 1 A	0,58 A	2 A
AWZG2-24V3A-C		0,5 / 1 A	1,41 A	3 A

TECHNICAL DATA	AWZG2-12V	AWZG2-24V
PSU type EN50131-6:	A, Grade 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:	Temperature: -10°C ÷ +40°C relative humidity 20%...90%, without condensation	
Protection class EN 62368-1:	I (first)	
Protection grade EN 60529:	IP20	
Environment class EN 50131-6:	II	
Environment class EN 60839-11-2:	I (first)	
Storage temperature:	-20°C...+60°C	
Vibrations and impulse waves during transport:	According to 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. Convictional cooling.	

