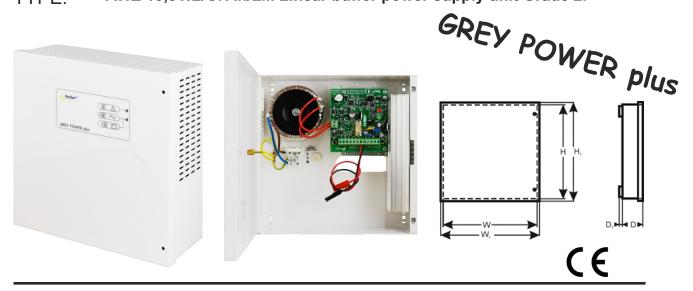
## AWZ series power supply unit Linear buffer power supply unit 13,8V DC Grade 2



**EN\*\*** 

CODE: **AWZ 230** v.2.4/X

TYPE: AWZ 13,8V/2A/7Ah/LM Linear buffer power supply unit Grade 2.



## Features:

- EN50131-6 compliance, 1÷2 grades and II environmental class
- mains supply ~230 V
- 13,8 V DC uninterrupted supply
- fitting battery: 7 Ah/12 V
- PSU current efficiency:
  - 0,58 A for grades 1, 2 \*
  - 2 A for general use \*\* (see: chapter 1.1)
- linear voltage regulator
- microprocessor-based automation system
- output voltage control
- · dynamic battery test
- · battery electrical continuity control
- · battery voltage control
- · battery fuse status control
- battery charge and maintenance control
- deep discharge battery protection (UVP)
- battery output protection against short-circuit and reverse polarity connection
- battery charging current 0,4 A/0,9 A jumper selectable

- START function of manual switch to battery power
- STOP facility for manual disconnection during battery
  - assisted operation
- LED indication
- · acoustic indication
- EPS technical output of power failure
- OC type
- PSU technical output indicating PSU and battery failure
   OC type
- APS technical output indicating battery failure
  - OC type
- Optional installation of the MPSBS relay module changing technical outputs of the OC type to relay type
- adjustable times indicating AC power failure
- protections:
  - SCP short-circuit protection
  - · OLP overload protection
  - over voltage protection
  - surge protection
  - · against sabotage
- warranty 5 years from the production date

## **DESCRIPTION**

The buffer power supply is designed in accordance with the requirements of the EN 50131-6 standard, grade 1÷2 and II environmental class. It is intended for an uninterrupted supply of alarm system devices requiring stabilized voltage of 12 V DC (+/-15%). A linear stabilizing system, which has been used in the unit, provides voltage with a lower level of noise and a quicker response to interference when compared to a switched-mode regulator.

Depending on a required protection level of the alarm system in the installation place, the PSU efficiency and the battery charging current should be set as follows:

\* Grade 1, 2 - standby time 12h

Output current 0,58 A + battery charging current 0,9 A

- \*\* General use if the PSU is not mounted in an installation complaint with the EN-50131 standard, the acceptable current efficiency amounts to:
  - 1. Output current 2 A (without a battery)
  - 2. Output current 1,6 A + 0,4 A battery charging current
  - 3. Output current 1,1 A + 0,9 A battery charging current

Total current of the receivers + battery charging current is max. 2 A.

In case of power decay, a battery back-up is activated immediately. The PSU is housed in a metal enclosure with battery space for a 7 Ah/12 V battery. It is fitted with micro switches indicating unwanted door opening (front panel).

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SPECIFICATIONS	
	A /FDC Fytomol Dower Course
PSU type	A (EPS - External Power Source),
Mains supply	protection class 1÷2, II environmental class ~230 V; 50 Hz
Current consumption	
·	0,29 A 28 W
PSU power	
Output voltage	11 - 13,8 V DC – buffer operation 10 - 13,8 V DC – battery-assisted operation
Output current	- for grades 1, 2:
Output current	lo = 0,58 A + 0,9 A battery charging current
	- for general use:
	Io = 2 A (without a battery)
	lo = 1,6 A + 0,4 A battery charging current
	lo = 1,1 A + 0,9 A battery charging current
Output voltage adjustment range	13 - 14 V DC
Ripple voltage	20mVp-p
Battery charging current	0,4 A/0,9 A jumper selectable
01 1 1 1 1 205	200% ÷ 250% of PSU power - current limitation and/or fuse F <sub>BAT</sub> damage
Short-circuit protection SCP	in the battery circuit (fuse-element replacement required)
	Automatic return
Overload protection OLP	110% ÷ 150% (@25°C÷65°C) of PSU power - limitation by the PTC resettable fuse, manual restart (disconnection of the DC output circuit)
	U>16,5 V disconnection of the output voltage (AUX+ disconnection),
Overvoltage protection OVP	automatic return
o to to tago protocaon o vi	U> 14,5 V fault indication
Battery circuit protection SCP and reverse	F3,15 A- current limitation, F <sub>BAT</sub> fuse (in case of a failure, fuse-element
polarity connection	replacement required)
Deep discharge battery protection UVP	U<10 V (± 0,5V) – disconnection of battery terminal
Tamper protection:	·
- TAMPER - indicates unwanted opening of	- microswitch, NC contacts (enclosure closed), 0,5 A@50 V DC (max.)
the enclosure	
Technical outputs:	001 50 4
- EPS; output indicating AC power failure	- OC type: 50mA max.
	Normal operation: L state (0V), failure: hi-Z state,
	- delay time 0s÷1h (+/-20%) – jumper selectable <b>T</b> <sub>AC</sub>
	asia, and our might 2070) jumper solicitable 140
- PSU; output indicating no DC power/PSU	- OC type: 50mA max.
failure	Normal operation: L state (0V),
	failure: hi-Z state,
- APS; output indicating battery failure	- OC type, 50mA max.
	Normal operation: L state (0V), failure: hi-Z state
LED indication	LEDs: AC/DC power status, failure
Acoustic indication	piezoelectric indicator 75dB/0,3m, switchable via jumper
Operating conditions	Il environmental class, -10 °C÷40 °C
Enclosure	Steel plate DC01, thickness: 0,7mm, colour: RAL 9003
Dimensions	W=230 H=230 D+D <sub>1</sub> =82+8 mm [+/-2 mm]
	W <sub>1</sub> =235, H <sub>1</sub> =235 [+/-2 mm]
Net/gross weight	2,7 / 2,8kg
Fitting battery	7 Ah/12 V (SLA) max. H↑
	175x105x78mm (WxHxD) max
	D
Closing:	2x cheese head screw (at the front),
Declarations, warranty	CE, 5 year from the production date
Notes:	The enclosure does not adjoin the assembly surface so that cables can
	be led. Convectional cooling.