

AWZ series power supply unit

Linear, buffer power supply unit 13,8V DC

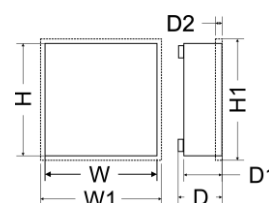


CODE: **AWZ 300** v.2.3/VII
TYPE: **AWZ 13,8V/3A/17Ah/L linear, buffer power supply unit**

EN**



GREY POWER



Features:

- 13,8VDC/3A uninterruptible supply
- fitting battery: 17Ah/12V
- mains supply 230VAC
- linear voltage regulator
- battery over-discharge protection (UVP)
- battery charge and maintenance control
- battery output full protection against short-circuit and reverse polarity connection
- battery charging current 0,7A
- LED indication
- protections:
 - SCP short-circuit
 - OLP overload
 - OHP overheat
 - over voltage
 - against sabotage
- warranty – 5 year from the production date

DESCRIPTION

A buffer PSU is intended for an uninterrupted supply to alarm system devices requiring stabilized voltage of **12V 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. The PSU provides voltage of **U_{out} = 12,8V ÷ 13,8V DC** during buffer operation, with current capacity:

1. Output current 3A (without a battery)
2. Output current 2,3A + 0,7A battery charge

Total current of the receivers + battery: 3A max.

In case of power decay, a battery back-up is activated immediately. The PSU is housed in a metal enclosure which can accommodate a 17Ah/12V battery. It features a micro switch (TAMPER) that indicates door opening (front cover).

SPECIFICATIONS	
PSU type	A (EPS - External Power Source)
Mains supply	230V AC 50Hz (-10%/+10%)
Current consumption	0,63A
PSU power:	42W
Output voltage	12,8V ÷ 13,8V DC – buffer operation
Output current	3A (without a battery) 2,3A + 0,7A battery charge
Voltage adjustment range	12V ÷ 14,5V DC
Ripple	20mV
Battery charging current	1,6A 0,7A/24h
Short-circuit protection SCP	200% ÷ 250% of PSU power – current limitation and/or fuse damage in the battery circuit (fuse-element replacement required)
Overload protection OLP	110% ÷ 150% (@65 °C ÷ 25°C) of PSU power - limitation with the PTC resettable fuse, manual restart (the fault requires disconnection of the DC output circuit)
Battery circuit protection SCP and reverse polarity connection	F 5A - current limitation, F _{BAT} fuse (in case of a failure, fuse-element replacement required)
Over-discharge protection UVP	U<10 V (± 5%) – disconnection (- BAT) of the battery
Technical output: - TAMPER - indicates enclosure opening	- a micro switch, NC contacts (enclosure closed), 0,5A@50V DC (max.)
Operating conditions	2nd environmental class, temperature: -10 °C ÷ 40 °C
Enclosure	Steel plate DC01, thickness: 0,8mm, colour: RAL 9003
Dimensions	230 x 300 x 90+8 [mm] (WxHxD)
Net/gross weight	3,3 / 3,5 kg
Fitting battery	17Ah/12V (SLA) max. 180x165x85mm (WxHxD) max
Closing	Cheese head screw (at the front),
Declarations, warranty	CE, RoHS, 5 year from the production date
Notes	The enclosure does not adjoin the assembly surface so that cables can be led. Convictional cooling.

