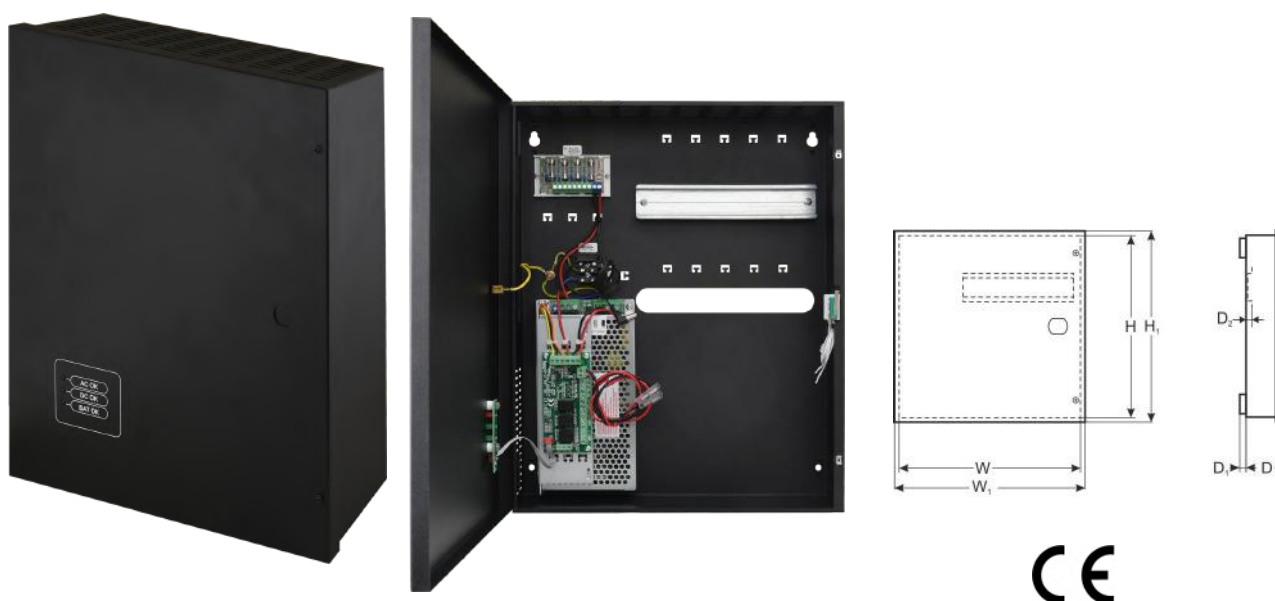


Enclosure with power supply unit dedicated to Dahua's Access Control

CODE: **AWZ637** v.1.0/1
NAME: **Enclosure with power supply unit dedicated to Dahua's Access Control**

EN



Features:

- DC 13,8 V/6 A uninterruptible power supply*
 - fitting battery: 17 Ah/12 V
 - wide range of mains supply: ~200-240 V
 - high efficiency 80 %
 - battery charging and maintenance control
 - excessive discharging (UVP) protection
 - jumper selectable battery charge current 1 A/2 A
 - battery output full protection against short-circuit and reverse polarity connection
 - enclosure dedicated for Dahua controllers ASC2104B-T, ASC2102B-T (and similar)
 - EPS technical output indicating AC power loss – OC and relay type
 - PSU technical output indicating PSU failure – OC and relay type
 - LoB technical output indicating battery low voltage – OC and relay type
 - protections:
 - SCP short-circuit protection
 - OVP overvoltage protection
 - overvoltage protection
 - against sabotage
 - overload protection (OLP)
- warranty – 2 year from the production date

DESCRIPTION

A buffer PSU is intended for an uninterrupted supply to devices requiring stabilised voltage of **12 V DC (+/-15 %)**. The PSU provides voltage of **U=13,8 V DC**. Current efficiency:

1. Output current 6 A + 1 A battery charge*

2. Output current 5 A + 2 A battery charge*

Total device current + battery: 7 A max .

In case of power decay, a battery back-up is activated immediately. The PSU is constructed based on the switch mode PSU, with high energy efficiency. The PSU is housed in a metal enclosure (colour RAL 9005) which can accommodate a 17 Ah/12 V battery. A micro switch indicates door opening (front cover). TH35 rail, length of 185 mm, for mounting the controller was installed inside. The PSU has been equipped with a LB4 fuse

* Refer to chart 1

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SPECIFICATIONS	
PSU type	~200-240 V; 50 Hz
Mains supply	1,1 A
Current up to	100 W max.
Efficiency	80 %
Output voltage	11-13,8 V DC – buffer operation 9,5 V ÷ 13,8 V DC – battery-assisted operation
Output current $t_{AMB} < 30^{\circ}C$	6 A + 1 A battery charge - refer to chart 1 5 A + 2 A battery charge - refer to chart 1
Output current $t_{AMB} = 40^{\circ}C$	4,9 A + 1 A battery charge - refer to chart 1 3,9 A + 2 A battery charge - refer to chart 1
Voltage adjustment range	12 ÷ 14 V DC
Ripple	120 mV p-p max.
Current consumption by PSU systems	60 mA
Battery charge current	1 A or 2 A max. @ 17 Ah ($\pm 5\%$) – jumper selectable
Short-circuit protection SCP	electronic, automatic return
Overload protection OLP	105 -150 % of the PSU power, automatic return
Fuses F1 ÷ F4	F1,5 A / 250 V
Battery circuit protection SCP and reverse polarity connection	glass fuse T8A/250V
Surge protection	varistors
Overvoltage protection OVP	>16 V (automatic recovery)
Excessive discharge protection UVP	U < 9,5 V ($\pm 5\%$) – disconnect of connection battery
Sabotage protection: - TAMPER output indicating enclosure opening	- microswitch, NC contacts (enclosure closed), 0,5 A @ 50 V DC (max.)
Operating conditions	2nd environmental class, $-10^{\circ}C$ ÷ $+40^{\circ}C$
Enclosure	Steel plate, DC01 0,8 mm colour: RAL 9005
Dimensions	W=320, H=397, D+D ₁ =92+8 [± 2 mm] W ₁ =325, H ₁ =401 [± 2 mm] D ₂ =18 [± 2 mm]
Net/gross weight	3,2 kg / 3,5 kg
The dimensions of the battery compartment	17 Ah/12 V (SLA) max. 180x120x75 mm (WxHxD) max
Declarations, warranty	CE, warranty – 2 year from the production date
Notes	The enclosure does not touch the assembly surface so that cables can be led. Convectional cooling. Power supply: $\Phi 0,63$ -2,50 (AWG 22-10) (AWG 22-10) 0,5 ÷ 1,5 mm ² Outputs: $\Phi 0,63$ -2,50 (AWG 22-10), (AWG 22-10) 0,5 ÷ 1,5 mm ² Controller power supply: DC2,1/5,5 mm ² plug Battery output BAT: 6,3F-2,5 TAMPER output: wires

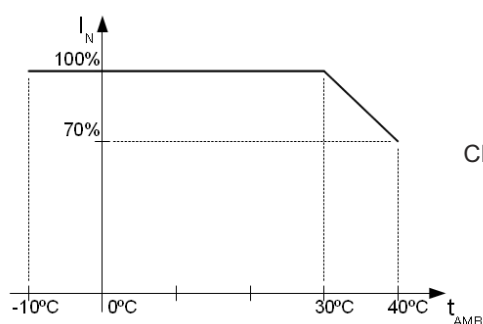


CHART 1. Acceptable output current from the PSU depending on ambient temperature.