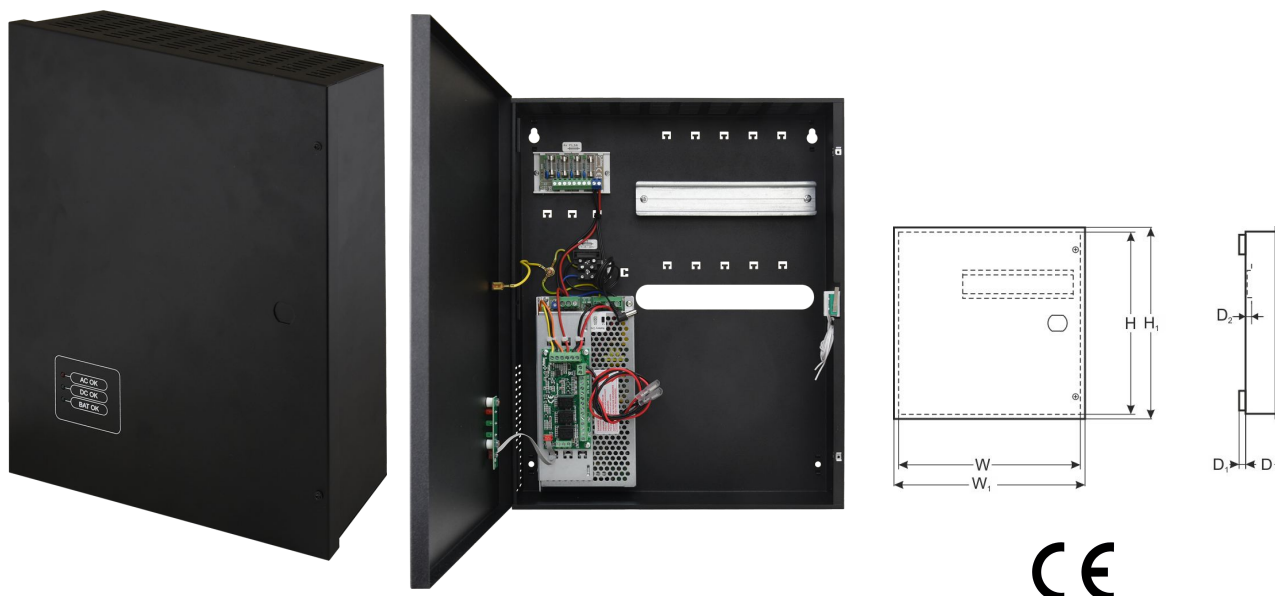


# Enclosure with power supply unit dedicated to Dahua's Access Control

CODE: **AWZ637** v.1.0/I  
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

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

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
<b>Output current <math>t_{AMB} &lt; 30^{\circ}C</math></b>	<b>6 A + 1 A battery charge - refer to chart 1</b> <b>5 A + 2 A battery charge - refer to chart 1</b>
<b>Output current <math>t_{AMB} = 40^{\circ}C</math></b>	<b>4,9 A + 1 A battery charge - refer to chart 1</b> <b>3,9 A + 2 A battery charge - refer to chart 1</b>
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 <sub>1</sub> =92+8 [+/- 2 mm] W <sub>1</sub> =325, H <sub>1</sub> =401 [+/- 2 mm] D <sub>2</sub> =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. Convectonal cooling. Power supply: $\Phi 0,63$ -2,50 (AWG 22-10) (AWG 22-10) 0,5 ÷ 1,5 mm <sup>2</sup> Outputs: $\Phi 0,63$ -2,50 (AWG 22-10), (AWG 22-10) 0,5 ÷ 1,5 mm <sup>2</sup> Controller power supply: DC2,1/5,5 mm <sup>2</sup> plug Battery output BAT: 6,3F-2,5 TAMPER output: wires

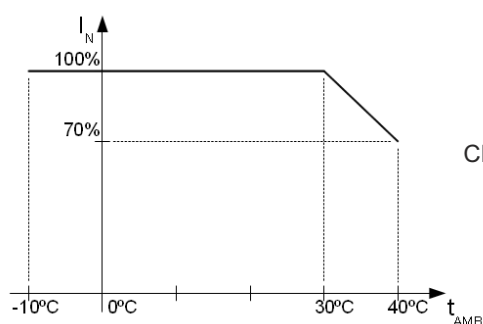


CHART 1. Acceptable output current from the PSU depending on ambient temperature.