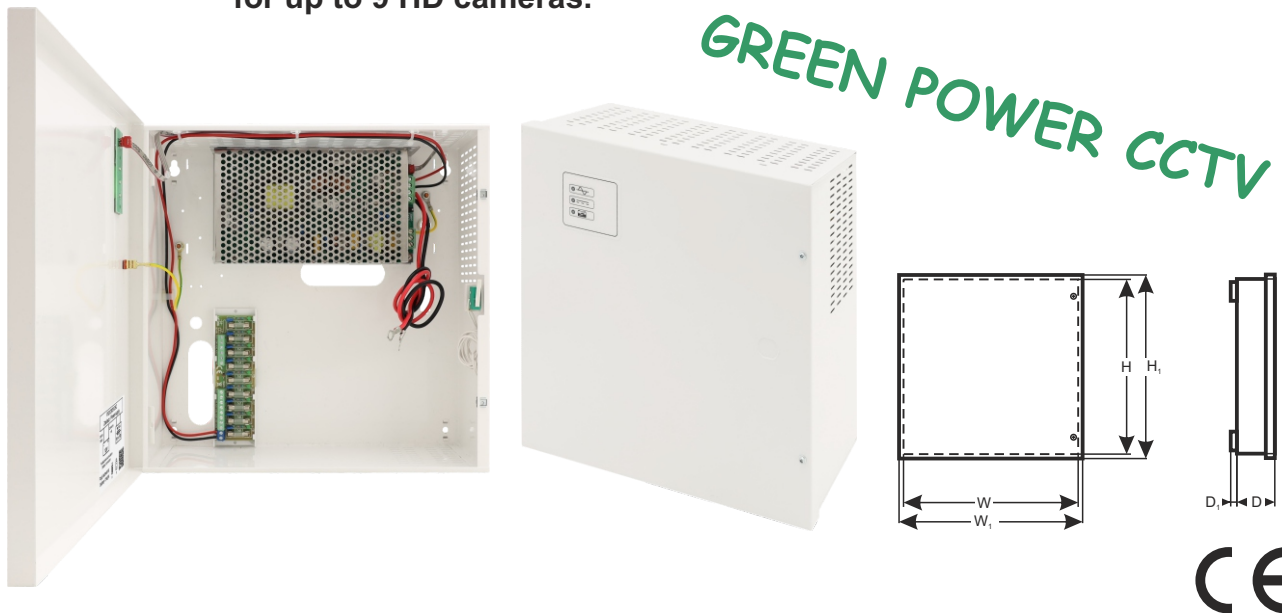


CODE: **PSDCB09129C** v.1.1/VIII  
NAME: **PSDCB 13,8V/9A/9x1A/17Ah buffer power supply for up to 9 HD cameras.**

EN



### Features:

- DC 13,8V/9A uninterruptible power supply
- 9 outputs, protected with 1A glass fuses
- fitting battery: 17Ah/12V
- wide range of mains supply: ~200 - 240 V
- high efficiency 87%
- battery charging and maintenance control
- excessive discharging (UVP) protection
- battery charging current 1A/4A changed with jumper
- Approximate backup time: 2h 30min
- battery output full protection against short-circuit and reverse polarity connection
- LED indication
- protections:
  - SCP short-circuit protection
  - OVP overvoltage protection
  - overvoltage protection
  - against sabotage
  - overload protection (OLP)
- warranty – 2 years from 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 9x1 A + 1 A battery charge**
- 2. Output current 9x0,66 A + 4A battery charge**

**Total device current + battery: 10 A max.**

In case of power decay, a battery back-up is activated immediately.

The approximate backup time is given assuming that all output ports are used (using typical devices and 17Ah batteries). The electricity consumption for own needs and the energy efficiency of the power intake track were taken into account. The exact description of how to perform the calculations can be found at: "[Approximate backup time - assumptions for calculations](#)".

The PSU is constructed based on the switch mode PSU, with high energy efficiency. The PSU is housed in a metal enclosure (colour RAL 9003) which can accommodate a 17Ah/12V battery. A micro switch indicates door opening (front cover).

# PSDCB series power supply unit

## Buffer power supply 13,8 V DC for up to 9 HD cameras



TECHNICAL DATA	
Mains supply	~200 - 240 V
Current up to	1,3 A
Supply power	138 W
Efficiency	87%
Output voltage	11 - 13,8 V DC – buffer operation 9,5 - 13,8 V DC – battery-assisted operation
<b>Output current <math>t_{AMB} &lt; 30^{\circ}C</math></b>	<b>9x1 A + 1 A battery charge – refer to chart 1</b> <b>9x0,66 A + 4 A battery charge – refer to chart 1</b>
Voltage adjustment range	13,5 – 14 V
Ripple	100 mV p-p max.
Battery charge current	1 / 4A ( $\pm 5\%$ )
Space for battery	17Ah/12V (SLA)
Approximate backup time	2h 30min
Short-circuit protection SCP	LB9 STRIP 9x glass fuse
Overload protection OLP	105 ÷ 150% of power supply, automatic recovery
Battery circuit protection SCP and reverse polarity connection	glass fuse T10A/250V
Surge protection	varistors
Overvoltage protection OVP	>19V (automatic recovery)
Excessive discharge protection UVP	U<9,5V ( $\pm 5\%$ ) – disconnect of connection battery
Tampering protection system: - TAMPER – indicating unwanted opening of the PSU's enclosure	- microswitch, NC contacts (enclosure closed), 0,5A@50 V DC (max.)
LED indication: - AC diode indicating AC power status - AUX diode indicating DC power status at PSU output	- red, normal status: permanently illuminated, failure: off - green, normal status: permanently illuminated, failure: off
Operating conditions	Temperature: -10°C ÷ +40°C relative humidity 20%...90%, without condensation
Dimensions	W=300, H=300, D+D <sub>1</sub> =105+8 [+/- 2mm] W <sub>1</sub> =305, H <sub>1</sub> =305 [+/- 2mm]
Space for battery	185x170x90mm (WxHxD) max
Net/gross weight	2.7 / 2.85 [kg]
Enclosure	Steel sheet DC01 0,7mm, color RAL 9003
Closing	Cheese head screw x 2 (at the front), lock assembly possible
Connectors	Power supply: $\Phi 0,63-2,50$ (AWG 22-10) Outputs $\Phi 0,41 \div 1,63$ (AWG 26-14), Battery output BAT: 6,3F-2,5 TAMPER output: wires
Declarations, warranty	CE, 2 years from production date
Notes	The enclosure does not adjoin the assembly surface so that cables can be led.