

PSDCB series power supply unit

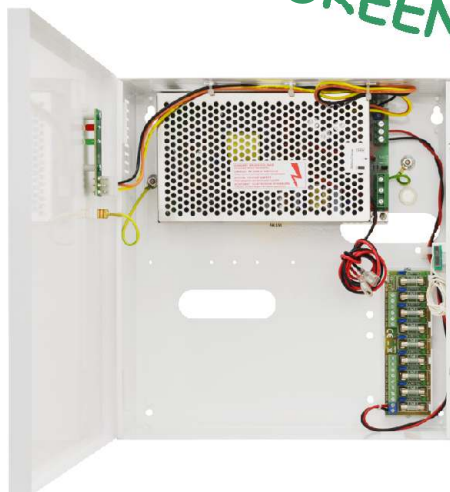
Buffer power supply 13,8V DC for up to 9 analog cameras



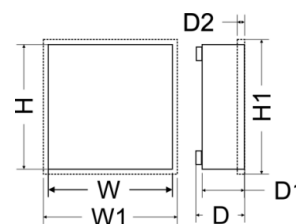
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CODE: **PSDCB09129C** v.1.0/V

TYPE: **PSDCB 13,8V/9A/9x1A/17Ah** buffer power supply for up to 9 analog cameras



GREEN POWER CCTV



Features:

- DC 13,8V/9A* uninterruptible power supply
- 9 outputs, protected with 1A glass fuses
- fitting battery: 17Ah/12V
- wide range of mains supply: 176÷264V
- high efficiency 83%
- battery charging and maintenance control
- excessive discharging (UVP) protection
- battery charging current 1A/4A changed with jumper
- 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 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 9x1A + 1A battery charge**
 - 2. Output current 9x0,77A + 4A battery charge**
- Total device current + battery: 11A 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 9003) which can accommodate a 17Ah/12V battery. A micro switch indicates door opening (front cover).

* Refer to chart 1

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SPECIFICATIONS	
PSU type	A (EPS - External Power Source)
Mains supply	176÷264V AC
Current up to	1,4A@230VAC
Supply power	155W max.
Efficiency	83%
Output voltage	11V÷13,8V DC – buffer operation 9,5V÷13,8V DC – battery-assisted operation
Output current $t_{AMB}<30^{\circ}\text{C}$	9x1A + 1A battery charge - refer to chart 1 9x0,77A + 4A battery charge - refer to chart 1
Output current $t_{AMB}=40^{\circ}\text{C}$	9x0,74A + 1A battery charge - refer to chart 1 9x0,41A + 4A battery charge - refer to chart 1
Voltage adjustment range	12÷14VDC
Ripple	120mV p-p max.
Battery charge current	1A/4A max. @ 17Ah ($\pm 5\%$) – jumper selectable
Short-circuit protection SCP	LB9 STRIP 9x F 1A glass fuse
Overload protection OLP	105-150% of power supply, automatic recovery
Battery circuit protection SCP and reverse polarity connection	polymer fuse
Surge protection	varistors
Overvoltage protection OVP	>16V (automatic recovery)
Excessive discharge protection UVP	$U < 9,5\text{ V } (\pm 5\%)$ – disconnect of connection battery
Tampering protection system: - TAMPER – indicating unwanted opening of the PSU's enclosure	- microswitch, NC contacts (enclosure closed), 0,5A@50V DC (max.)
LED indication	Yes
Operating conditions	2nd environmental class, $-10^{\circ}\text{C} \div 40^{\circ}\text{C}$ relative humidity 20%...90%, without condensation
Enclosure	Steel plate, DC01 0,7mm colour: RAL 9003
Enclosure dimensions	280 x 292 x 80+8 (WxHxD) [mm]
Net/gross weight	2,44kg / 2,64kg
Fitting battery	17Ah/12V (SLA) max. 185x170x75mm (WxHxD) max
Closing	Cheese head screw x 2 (at the front), (lock assembly possible)
Deklarations, warranty	CE, RoHS, 2 year from the production date
Notes	Space between the device and the wall (ground) 8 mm. PSU cooling: convection. 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

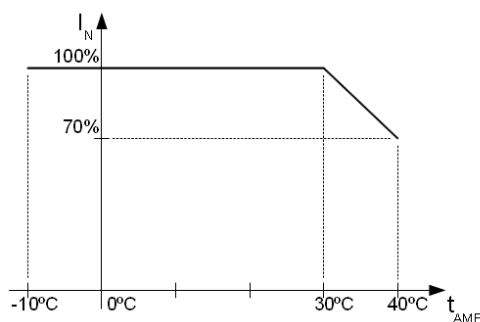


Chart 1. Acceptable output current from the PSU depending on ambient temperature.