

# PSDCB series power supply unit

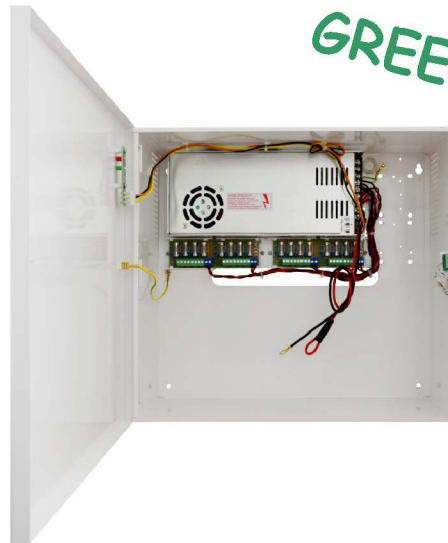
## Buffer power supply for up to 16 analog cameras



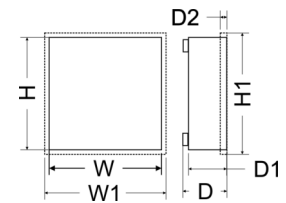
CODE: **PSDCB161220E** v.1.0/1

EN\*\*

TYPE: **PSDCB 13,8V/20A/16x1A/65Ah** Buffer power supply for up to 16 analog cameras.



GREEN POWER CCTV



### Features:

- DC 13,8V/20A uninterruptible power supply\*
- 16 outputs protected by 1A melting fuses for powering analog cameras
- fitting battery: 65Ah/12V
- wide range of mains supply: 176÷264V
- built-in power factor correction system (PFC)
- high efficiency 85%
- battery charging and maintenance control
- excessive discharging (UVP) protection
- jumper selectable battery charge current 2A/4A/8A
- battery output full protection against short-circuit and reverse polarity connection
- LED indication
- protections:
  - SCP short-circuit protection
  - OVP overvoltage protection
  - overvoltage protection (AC input)
  - against sabotage
  - overload protection (OLP)
  - overheat protection OHP
- forced cooling - built-in fan
- warranty – 2 year from the production date

### DESCRIPTION

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

1. Output current 16x1,1A + 2A battery charge\*
  2. Output current 16x1A + 4A battery charge\*
  3. Output current 16x0,75A + 8A battery charge\*
- Total device current + battery: 20A max\*.**

In case of power decay 230V, 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 65Ah/12V battery. A micro switch indicates door opening (front cover).

The power supply housing has space for additional modules (fuse blocks, voltage regulators and DC-DC converters). Optional power supply configurations are available at the website: [www.pulsar.pl](http://www.pulsar.pl)

\* Refer to chart 1

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SPECIFICATIONS	
PSU type	A (EPS - External Power Source)
Mains supply	176÷264V AC
Current up to	1,5A@230V AC max.
Supply power	300W max.
Efficiency	85%
Power factor PF	>0,95 @230V AC
Output voltage	11V± 13,8V DC – buffer operation 9,5V±13,8V DC – battery-assisted operation
Output current $t_{AMB} < 30^{\circ}\text{C}$	<b>16x1,1A + 2A battery charge - refer to chart 1</b> <b>16x1A + 4A battery charge - refer to chart 1</b> <b>16x0,75A + 8A battery charge - refer to chart 1</b>
Output current $t_{AMB} = 40^{\circ}\text{C}$	<b>16x0,75A + 2A battery charge - refer to chart 1</b> <b>16x0,6A + 4A battery charge - refer to chart 1</b>
Voltage adjustment range	12÷14V DC
Ripple	120 mV p-p max.
Current consumption by PSU systems	180 mA
Battery charge current	2A/4A or 8A- jumper selectable
Short-circuit protection SCP	2x LB8 STRIP 16x F 1A melting fuse
Overload protection OLP	105-150% of the PSU power, automatic return
Battery circuit protection SCP and reverse polarity connection	melting fuse 30A
Surge protection	varistors
Overvoltage protection OVP	> 16V (activation requires disconnecting the load or supply for about 20 s.)
Excessive discharge protection UVP	$U < 9,5\text{ V} (\pm 5\%)$ – disconnect of connection battery
Sabotage protection: - TAMPER output indicating enclosure opening	- microswitch, NC contacts (enclosure closed), 0,5A@50V DC (max.)
LED indicatio	LEDs
Operating conditions	2nd environmental class, $-10^{\circ}\text{C} \div 40^{\circ}\text{C}$
Enclosure	Steel plate DC01, thickness: 1,0mm, colour: RAL 9003
Enclosure dimensions	400 x 350 x 170+8 [mm] (WxHxD)
Net/gross weight	6,8 / 7,2 kg
Fitting battery	65Ah/12V (SLA) max. 360x175x165mm (WxHxD) max
Closing	Cheese head screw x 2 (at the front), lock assembly possible
Declarations, warranty	CE, 2 year from the production date
Notes	The enclosure does not touch the assembly surface so that cables can be led. Forced cooling - built-in fan.

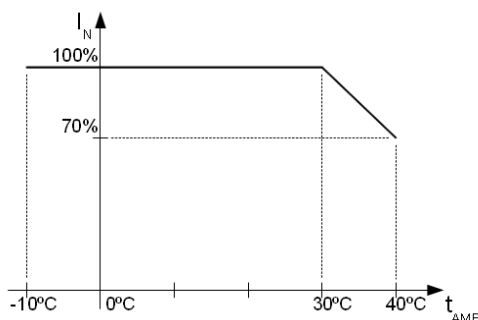


Chart 1. Acceptable output current from the PSU depending on ambient temperature.