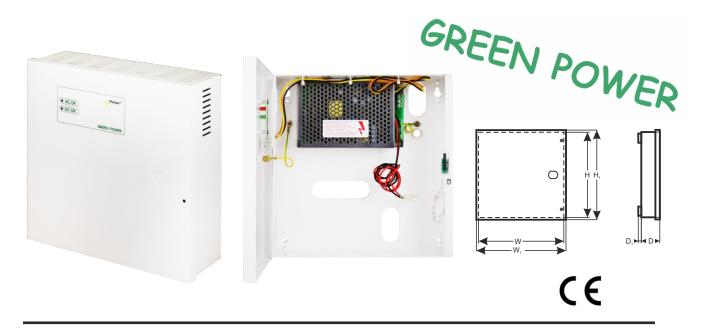
HPSB series power supply unit Buffer, switch mode power supply unit 13,8V DC



EN**

CODE: **HPSB 3512B** v.1.0/II

TYPE: HPSB 13,8V/3A/7Ah Buffer, switch mode power supply unit



Features:

- DC 13,8V/3A uninterruptible power supply*
- fitting battery: 7Ah/12V
- wide range of mains supply: 176÷264V
- high efficiency 76%
- battery charging and maintenance control
- excessive discharging (UVP) protection
- battery charge current 0,5A
- battery output full protection against short-circuit and reverse polarity connection
- LED indication
- protections:
 - SCP short-circuit protection
 - OVP overvoltage protection
 - overvoltage protection (output AC)
 - against sabotage
 - overload protection (OLP)
- warranty 2 year from the production date

DESCRIPTION

Abuffer PSU intended for uninterrupted supply to devices that require stabilised voltage of 12V DC (+/-15%). The PSU provides voltage of U=13,8V DC with output current of I=3A + 0,5A for battery charging*. 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 7Ah/12V battery. A micro switch indicates door opening (front cover).

During normal operation, the total current drawn by the equipment may not exceed $I = 3 A^*$. Maximum battery charging current: $0.5 A^*$.

Total device current + battery: 3,5 A max*.

The power supply housing has space for additional modules (fuse blocks, voltage regulators and DC-DC converters).

^{*} Refer to chart 1

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SPECIFICATIONS	
PSU type	A (EPS - External Power Source)
Mains supply	176÷264V AC 50÷60Hz
Current up to	0,6A@230VAC
Supply power	50W max.
Efficiency	76%
Output voltage	13,8V DC – buffer operation
,	9,5V÷13,8V DC – battery-assisted operation
Output current t _{AMB} <30°C	3A + 0,5A battery charge - refer to chart 1
Output current t _{AMB} =40°C	2,1A + 0,5A battery charge - refer to chart 1
Voltage adjustment range	12÷14VDC
Ripple	120mV p-p max.
Battery charge current	0,5A max. @ 7Ah (± 5%)
Short-circuit protection SCP	electronic, automatic return
Overload protection OLP	105-150% of the PSU power, automatic return
Battery circuit protection SCP and	PTC polymer fuse
reverse polarity connection	
Surge protection	varistors
Overvoltage protection OVP	>16V (automatic recovery)
Excessive discharge protection UVP	U<9,5V (± 5%) – disconnect of connection battery
Sabotage protection:	
- TAMPER output indicating	- microswitch, NC contacts (enclosure closed),
enclosure opening	0,5A@50V DC (max.)
LED indication	Yes
Operating conditions	2nd environmental class, -10 °C÷40 °C
Enclosure	Steel plate DC01, thickness: 0,7mm, colour: RAL 9003
Dimensions	W=250 H=250 D+D ₁ =82 + 8 [+/- 2mm]
N. d	W ₁ =255 H ₁ =255 [+/- 2mm]
Net/gross weight	1,8 kg / 2kg
Fitting battery	7Ah/12V (SLA) max.
	160x90x75mm (WxHxD) max
Closing	Cheese head screw (at the front), (lock assembly possible)
Declarations, warranty	CE, 2 year from the production date
Notes	The enclosure does not adjoin the assembly surface so that cables
	can be led.
	Convectional cooling.
	Connectors: Power-supply: Φ0,63÷2,5
	Battery output BAT: 6,3F-2,5.

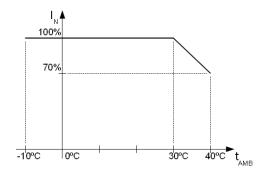


Chart 1. Acceptable output current from the PSU depending on ambient temperature.