

PSBS series power supply unit



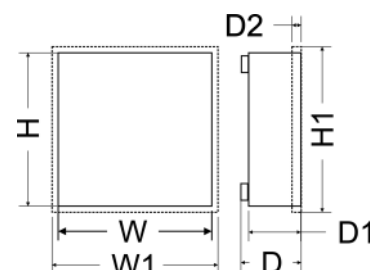
Buffer, switch mode power supply unit 13,8V/DC, without automatic operation control

CODE:
TYPE:

PSBS 3512C v.1.0

PSBS 13,8V/3A/17Ah Buffer, switch mode power supply unit

EN*



Features:

- DC 13,8V/3A uninterruptible power supply
- fitting battery: 17Ah/12V
- high efficiency 69%
- DC 13,8V/3A uninterruptible power supply
- 17Ah/12V battery
- high efficiency 69%
- battery charging and maintenance control
- excessive discharging (UVP) protection
- battery output full protection against short-circuit and reverse polarity connection
- selectable charging current 0,5A/1A
- START facility for manual battery connection
- AUX fuse status control
- LED indication
- FAC indication of the 230V power collapse
- FPS output of the PSU failure, tripped by:
 - short-circuit (SCP)
 - overload (OLP)
 - failure of DC/DC converter
- protections:
 - SCP short-circuit protection
 - OLP overload protection
 - OHP overhear protection
 - overvoltage protection
 - against sabotage

DESCRIPTION

The buffer PSU is used for an uninterrupted supply to alarm systems devices requiring stabilized voltage of **12V/DC (+/-15%)**. The PSU provides voltage of **13,8 V DC**. Current efficiency:

1. Output current **3,0A + 0,5A** battery charging
2. Output current **2,5A + 1,0A** battery charging

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

In case of power decay, a battery back-up is activated immediately. Battery charging preset current - 1A.
A metal enclosure (RAL 9003 colour) accommodates a 17Ah/12V battery and a microswitch indicates door opening.

PSBS series power supply unit



Buffer, switch mode power supply unit 13,8V/DC, without automatic operation control

SPECIFICATIONS	
PSU type	A (EPS - External Power Source)
Mains supply	230V AC 50÷60Hz
Current up to	0,39 A
Supply power	34W
Efficiency	69%
Output voltage	11,0 V÷ 13,8 V DC – buffer operation 10,0 V÷ 13,8 V DC – battery-powered operation
Output current	3,0A + 0,5A battery charge 2,5A + 1,0A battery charge
Voltage adjustment range	12,0 V÷ 14,5 V DC
Ripple	50 mV p-p max.
Battery charging current	0,5A / 1A - I _{BAT} jumper selectable
Short-circuit protection SCP	200% ÷ 250% of supply power - current limitation and/or fuse damage in the battery circuit (fuse-element replacement required)
Overload protection OLP	110% ÷ 150% (@25°C) of power supply - limitation with the PTC automatic fuse, manual restart (the fault requires the disconnection of the DC output circuit)
Battery circuit SCP and reverse polarity protections	5,0A - current limitation, F _{BAT} fuse (failure requires replace of the fuse-element)
Excessive discharge protection UVP	U<10,0 V (± 5%) – disconnection of (- BAT) battery, configuration with the P _{BAT} jumper
Technical outputs: - FAC; indicates AC power failure - FPS; indicates PSU operation status - TAMPER indicates enclosure opening	- OC type, 50mA max. normal status: level L (0V), failure: level hi-Z, 10s time lag. - OC type, 50mA max. normal status: level L (0V), failure: level hi-Z (automatic recovery after a return to correct operation) - microswitch, NC contacts (enclosure closed), 0,5A@50V DC (max.)
LED indication	Yes
Operating conditions	2nd environmental class, -10 °C÷40 °C
Enclosure	Metal IP20, color RAL9003
Dimensions	235 x 305 x 98 (230 x 300 x 90+8) [mm] (WxHxD) (+/-2)
Weight	2,90kg / 3,10kg
Fitting battery	17Ah/12V (SLA) max.
Closing	Cheese head screw (at the front), lock assembly possible
Notes	Recommended space between the device and the wall (ground) - 8 mm PSU cooling: convection

PSBS series power supply unit



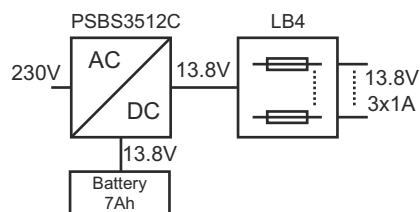
Buffer, switch mode power supply unit 13,8V/DC, without automatic operation control

Optional configurations:

Battery 7Ah:

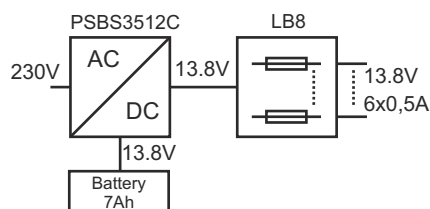
Buffer power supply unit PSBS 13,8V/3x1A/7Ah

- PSBS 3512C + LB4 3x1A (AWZ575 or AWZ576) + 7Ah



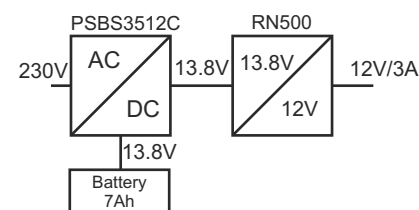
Buffer power supply unit PSBS 13,8V/6x0,5A/7Ah

- PSBS 3512C + LB8 6x0,5A (AWZ578 or AWZ580) + 7Ah



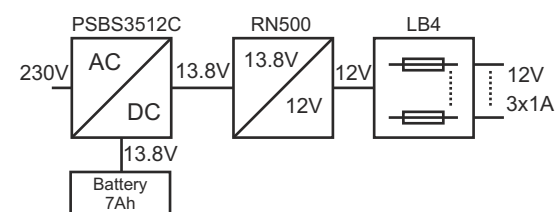
Buffer power supply unit PSBS 13,8V/12V/3A/7Ah

- PSBS 3512C + RN500 (13,8V/12V) + 7Ah



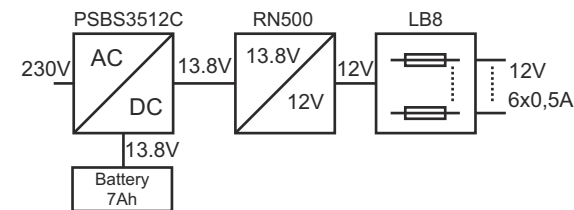
Buffer power supply unit PSBS 13,8V/12V/3x1A/7Ah

- PSBS 3512C + RN500 (13,8V/12V) + LB4 3x1A (AWZ575 or AWZ576) + 7Ah



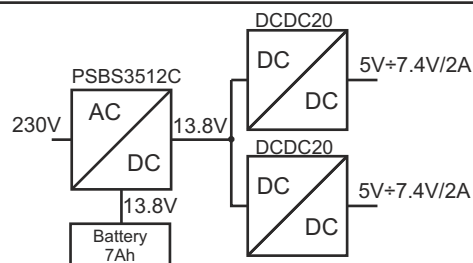
Buffer power supply unit PSBS 13,8V/12V/6x0,5A/7Ah

- PSBS 3512C + RN500 (13,8V/12V) + LB8 6x0,5A (AWZ578 or AWZ580) + 7Ah



Buffer power supply unit PSBS 13,8V/2x5V÷7,4V/2x2A/7Ah

- PSBS 3512C + 2xDCDC20(2x5V÷7,4V/2x2A) + 7Ah



Buffer power supply unit PSBS 13,8V/5V÷7,4V/2x1A/7Ah

- PSBS 3512C + DCDC20(5V÷7,4V/2A) + LB2 2x1A (AWZ585 or AWZ586) + 7Ah

