

HPSB series power supply unit



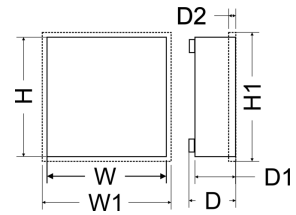
Buffer, switch mode power supply unit 27,6V DC

EN**

CODE: **HPSB 3524C** v.1.0/VII
TYPE: **HPSB 27,6V/3A/2x17Ah Buffer, switch mode power supply unit**



GREEN POWER



Features:

- DC 27,6V/3A uninterruptible power supply*
- fitting battery: 2x17Ah/12V
- wide range of mains supply: 176÷264V
- high efficiency 83%
- battery charging and maintenance control
- excessive discharging (UVP) protection
- jumper selectable battery charge current 0,5A/1A
- 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)
- warranty – 2 year from the production date

DESCRIPTION

A buffer PSU is intended for an uninterrupted supply to devices requiring stabilised voltage of **24V DC (+/-15%)**. The PSU provides voltage of **U=27,6V DC**. Current efficiency:

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

Total device current + battery: 3,5A 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 two 17Ah/12V batteries. 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 50÷60Hz |
| Current up to | 0,9A@230VAC |
| Supply power | 100W max. |
| Efficiency | 83% |
| Output voltage | 27,6V DC – buffer operation 19V÷27,6V DC – battery-assisted operation |
| Output current $t_{AMB}<30^{\circ}\text{C}$ | 3A + 0,5A battery charge - refer to chart 1 2,5A + 1A battery charge - refer to chart 1 |
| Output current $t_{AMB}=40^{\circ}\text{C}$ | 2A + 0,5A battery charge - refer to chart 1 1,5A + 1A battery charge - refer to chart 1 |
| Voltage adjustment range | 24÷28VDC |
| Ripple | 150mV p-p max. |
| Battery charge current | 0,5A / 1A max. @ 2x17Ah ($\pm 5\%$) – jumper selectable |
| Short-circuit protection SCP | electronic, automatic return |
| Overload protection OLP | 105-150% of the PSU power, automatic return |
| Battery circuit protection SCP and reverse polarity connection | PTC polymer fuse |
| Surge protection | varistors |
| Overvoltage protection OVP | >32V (automatic recovery) |
| Excessive discharge protection UVP | U<19V ($\pm 5\%$) – disconnect of connection battery |
| Sabotage protection: - TAMPER output indicating enclosure opening | - microswitch, NC contacts (enclosure closed), 0,5A@50V DC (max.) |
| LED indication | Yes |
| Operating conditions | 2nd environmental class, $-10^{\circ}\text{C}\div+40^{\circ}\text{C}$ |
| Enclosure | Steel plate DC01, thickness: 0,7mm, colour: RAL 9003 |
| Enclosure dimensions | 400 x 350 x 90+8 [mm] (WxHxD) |
| Net/gross weight | 3,4 / 3,7 kg |
| Fitting battery | 2x17Ah/12V (SLA) max. 360 x 170 x 85mm (WxHxD) max |
| Closing | Cheese head screw x 2 (at the front), (lock assembly possible) |
| Declarations, warranty | CE, RoHS, 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: $\Phi 0,63\div 2,5$ Battery output BAT: 6,3F-2,5. |

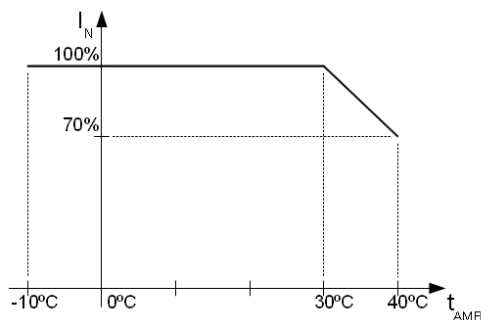


CHART 1. Acceptable output current from the PSU depending on ambient temperature.

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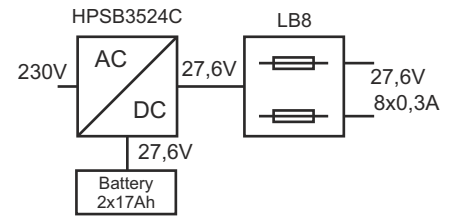


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Optional configurations:

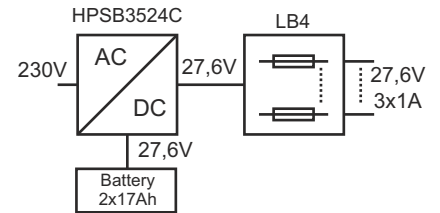
Buffer power supply unit HPSB 27,6V/8x0,3A/2x17Ah.

- HPSB3524C + LB 8x0,3A (AWZ577 or AWZ580) + 2x17Ah



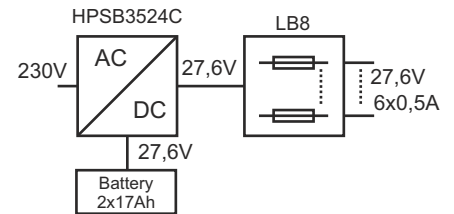
Buffer power supply unit HPSB 27,6V/3x1A/2x17Ah.

- HPSB3524C + LB4 3x1A (AWZ575 or AWZ576) + 2x17Ah



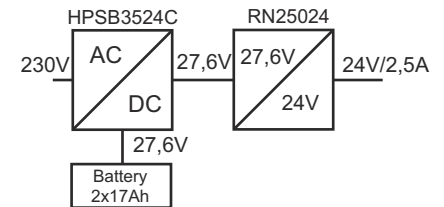
Buffer power supply unit HPSB 27,6V/6x0,5A/2x17Ah.

- HPSB3524C + LB8 6x0,5A (AWZ578 or AWZ580) + 2x17Ah



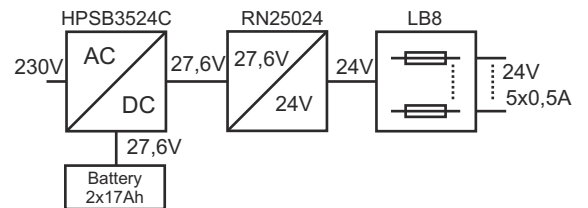
Buffer power supply unit HPSB 27,6V/24V/2,5A/2x17Ah.

- HPSB3524C + RN25024 (27,6V/24V) + 2x17Ah



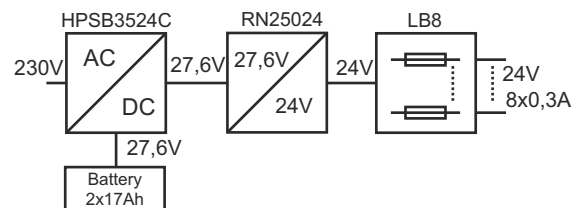
Buffer power supply unit HPSB 27,6V/24V/5x0,5A/2x17Ah.

- HPSB3524C + RN25024 (27,6V/24V) + LB8 5x0,5A (AWZ578 or AWZ580) + 2x17Ah



Buffer power supply unit HPSB 27,6V/24V/8x0,3A/2x17Ah.

- HPSB3524C + RN25024 (27,6V/24V) + LB8 8x0,3A (AWZ577 or AWZ580) + 2x17Ah



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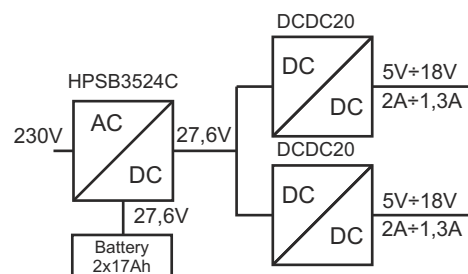


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Optional configurations:

Buffer power supply unit HPSB 27,6V/2x5V±18V/2x2A ÷1,3A/2x17Ah.

- HPSB3524C + 2xDCDC20 (2x5V±18V/2A÷1,3A) + 2x17Ah



Buffer power supply unit HPSB 27,6V/2x5V±18V/2x2A ÷1,3A/8x0,5A/2x17Ah.

- HPSB3524C + 2xDCDC20 (2x5V±18V/2A÷1,3A)
+ 2xLB4 8x0,5A (AWZ574 or AWZ576) + 2x17Ah

