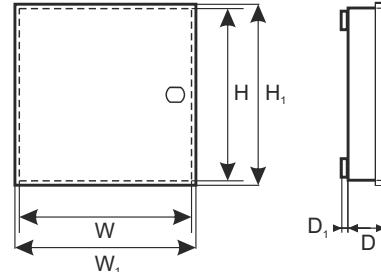


CODE: **HPSB** v.1.0/II
TYPE: Buffer switched mode power supply

EN



Features:

- supply voltage ~200 – 240 V
- DC 13,8 V; 27,6 V or 54 V uninterruptible power supply
- available versions with space for **7 Ah – 65 Ah** batteries
- available versions with current efficiencies
13,8 V: 2A/3A/5A/7A/10A/15A/20A
27,6 V: 2A/3A/5A/7A/10A
54 V: 3A/5A
- high efficiency (up to 90%)
- battery charging and maintenance control
- battery charging current jumper selectable (models with charging current adjustment)
- LED optical indication
- deep discharge battery protection (UVP)
- battery output protection against short circuit and reverse connection
- protections:
 - SCP short-circuit protection
 - OLP overload protection
 - over voltage protection
 - surge protection
 - against sabotage: unwanted enclosure opening
- warranty – 2 years from production date

Description

Switch mode buffer power supply units HPSB are intended for continuous power supply to devices that require stabilised voltage of 12, 24 or 48 V DC ($\pm 15\%$).

DISPLAYING PARAMETERS OF THE POWER SUPPLY:

| PSU's name | Output voltage | Output current max. | Charging current |
|---------------|----------------|---------------------|------------------|
| HPSB-12V2A-B | 13,8 V | 2,5 A | 0,5 A |
| HPSB-12V3A-B | 13,8 V | 3,5 A | 0,5 A |
| HPSB-12V3A-C | 13,8 V | 3,5 A | 0,5 A |
| HPSB-12V5A-C | 13,8 V | 5,5 A | 0,5 / 1 A |
| HPSB-12V7A-C | 13,8 V | 7 A | 1 / 2 A |
| HPSB-12V7A-D | 13,8 V | 7 A | 1 / 2 A |
| HPSB-12V10A-C | 13,8 V | 10 A | 1 / 4 A |
| HPSB-12V10A-D | 13,8 V | 10 A | 1 / 4 A |
| HPSB-12V15A-D | 13,8 V | 15 A | 2 / 4 A |
| HPSB-12V20A-E | 13,8 V | 20 A | 2 / 4 / 8 A |
| HPSB-24V2A-B | 27,6 V | 2,2 A | 0,2 / 0,5 A |
| HPSB-24V3A-B | 27,6 V | 3,5 A | 0,5 / 1 A |
| HPSB-24V3A-C | 27,6 V | 3,5 A | 0,5 / 1 A |
| HPSB-24V5A-C | 27,6 V | 5 A | 0,5 / 2 A |
| HPSB-24V5A-D | 27,6 V | 5 A | 0,5 / 2 A |
| HPSB-24V7A-C | 27,6 V | 7 A | 1 / 2 A |
| HPSB-24V10A-C | 27,6 V | 10 A | 1 / 2 / 4 A |
| HPSB-24V10A-D | 27,6 V | 10 A | 1 / 2 / 4 A |
| HPSB-48V3A-B | 54 V | 3 A | 0,5 / 1 A |
| HPSB-48V5A-C | 54 V | 5 A | 0,5 / 1 / 2 A |

Total current of the receivers + battery charging current mustn't cross maximum current of power supply.

Power supplies HPSB series

Buffer switched mode power supply



| TECHNICAL DATA | HPSB-12V | HPSB-24V | HPSB-48V |
|--|--|--|---|
| Power supply: | ~ 200 - 240 V | | |
| Output voltage: | 11 - 13,8 V – buffer operation 10 - 13,8 V – battery-assisted operation | 22 - 27,6 V – buffer operation 20 - 27,6 V – battery-assisted operation | 44 - 54 V – buffer operation 40 - 54 V – battery-assisted operation |
| Voltage adjustment range: | 13,5 – 14 V | 27 – 28,8 V | 53 – 56 V |
| Current consumption by PSU during battery – assisted operation | 15 - 40mA | 15 - 30mA | 30mA |
| Battery circuit protection SCP and reverse polarity connection: | – polymer fuse (returnable) – F _{BAT} fuse (in case of a failure, fuse-element replacement required) | | |
| Overload protection OLP | 105-150% of the PSU power, automatic return | | |
| Overvoltage protection OVP | >19 V activation of protection requires disconnection of main supply voltage for approx. 1 minute | >37 V activation of protection requires disconnection of main supply voltage for approx. 1 minute | >60 V (activation of protection requires disconnection of main supply voltage for approx. 1 minute) |
| Deep discharge battery protection UVP: | U<9,5 V – disconnection of battery terminal | U<19 V – disconnection of battery terminal | U<38 V – disconnection of battery terminal |
| Tamper protection: TAMPER indicates enclosure opening | microswitch, NC contacts (enclosure closed), 0,5 A@50 V DC (max.) | | |
| Optical indication: | LEDs on PCB of power supply unit LED indicators on power supply's cover | | |
| Operating conditions: | Temperature: -10°C ÷ +40°C relative humidity 20%...90%, without condensation | | |
| Protection class EN 62368-1: | I (first) | | |
| Degree of Protection EN 60529: | IP20 | | |
| Storage temperature: | -20°C...+60°C | | |
| Vibrations and impulse waves during transport: | According to PN-83/T-42106 | | |
| Enclosure: | Steel sheet DC01 0,7–1,0mm, color: RAL 9003 | | |
| Closing: | Cheese head screw x 2 (at the front), (lock assembly possible) | | |
| Declarations, warranty: | CE, 2 years from production date | | |
| Notes: | Enclosure does not adjoin assembly surface so that cables can be led.. Cooling: convectional / forced | | |