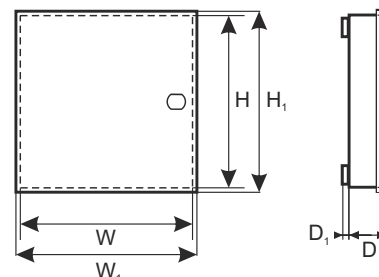


CODE: **HPSB** v.1.0/I  
TYPE: **Buffer switched mode power supply**

**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
- warrenty – 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-12V10A-C | 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-24V5A-C  | 27,6 V         | 5 A                 | 0,5 / 2 A        |
| HPSB-24V7A-C  | 27,6 V         | 7 A                 | 1 / 2 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.

| TECHNICAL DATA                                                     | HPSB-12V                                                                                                         | HPSB-24V                                                                      | HPSB-48V                                                                  |
|--------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| PSU type:                                                          | A (EPS - External Power Source),<br>II environmental class                                                       |                                                                               |                                                                           |
| Power supply:                                                      | ~ 200 - 240 V                                                                                                    |                                                                               |                                                                           |
| Output voltage:                                                    | 11 - 13,8 V – buffer operation<br>10 - 13,8 V – battery-assisted<br>operation                                    | 22 - 27,6 V – buffer operation<br>20 - 27,6 V – battery-assisted<br>operation | 44 - 54 V – buffer operation<br>40 - 54 V – battery-assisted<br>operation |
| Voltage adjustment range:                                          | 13.5 – 14 V                                                                                                      | 27 – 28,8 V                                                                   | 53 – 56 V                                                                 |
| Current consumption by PSU during<br>battery – assisted operation  | 15 - 40mA                                                                                                        | 15 - 30mA                                                                     | 30mA                                                                      |
| Battery circuit protection SCP and reverse<br>polarity connection: | – polymer fuse (returnable)<br>– F <sub>BAT</sub> fuse (in case of a failure, fuse-element replacement required) |                                                                               |                                                                           |
| Overload protection OLP                                            | 105-150% of the PSU power, automatic return                                                                      |                                                                               |                                                                           |
| Overvoltage protection OVP                                         | 37V activation of protection requires disconnection of main supply voltage for approx.<br>1 minute               |                                                                               |                                                                           |
| Deep discharge battery protection UVP:                             | U<9,5 V – disconnection of<br>battery terminal                                                                   | U<19 V – disconnection of<br>battery terminal                                 | U<38 V – disconnection of<br>battery terminal                             |
| Tamper protection:<br>TAMPER indicates enclosure opening           | microswitch, NC contacts (enclosure closed),<br>0,5 A@50 V DC (max.)                                             |                                                                               |                                                                           |
| Optical indication:                                                | LEDs on PCB of power supply unit<br>LED indicators on power supply's cover                                       |                                                                               |                                                                           |
| Operating conditions:                                              | II environmental class (PN-EN12101-10:2007), -5°C ÷ 40°C                                                         |                                                                               |                                                                           |
| Protection class EN 62368-1:                                       | I (first)                                                                                                        |                                                                               |                                                                           |
| Degree of Protection EN 60529:                                     | IP20                                                                                                             |                                                                               |                                                                           |
| Operating temperature:                                             | -10°C...+40°C                                                                                                    |                                                                               |                                                                           |
| Storage temperature:                                               | -20°C...+60°C                                                                                                    |                                                                               |                                                                           |
| Vibrations and impulse waves during<br>transport:                  | Wg 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..<br>Cooling: convectional / orced          |                                                                               |                                                                           |