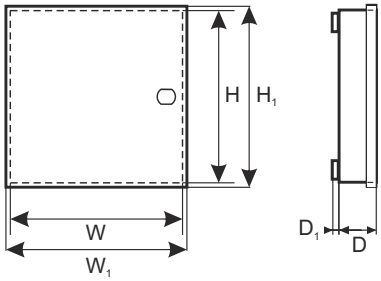
CODE: **HPSB** v.1.0/I **EN**
TYPE: **Buffer switched mode power supply**



CE

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 (±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.

Power supplies HPSB series
Buffer switched mode power supply

TECHNICAL DATA	HPSB-12V	HPSB-24V	HPSB-48V
PSU type:	A (EPS - External Power Source), II environmental class		
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	37V 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:	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:	-10ºC...+40ºC		
Storage temperature:	-20ºC...+60ºC		
Vibrations and impulse waves during 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.. Cooling: convectional / orced		