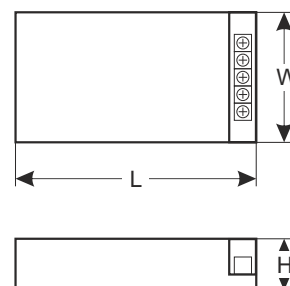


CODE: **PSB** v.1.0/II  
NAME: **Enclosed buffer switch mode power supply unit**

EN



**Features:**

- supply voltage ~200 – 240 V
- DC 13,8 V; 27,6 V or 54 V uninterruptible power supply
- available models:  
     **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 current jumper selectable (models with charging current adjustment)
- optional equipment: set of external LED indicators: PKAZ168, mounting plate DIN1-4
- LED optical indication
- battery charging and maintenance control
- deep discharge battery protection (UVP)
- battery output protection against short circuit and reverse connection
- protections:
  - SCP short circuit protection
  - OLP overload protection
  - OVP overvoltage protection
  - surge protection
- warranty – 2 years from production date

**DESCRIPTION**

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

**PARAMETERS OF POWER SUPPLIES:**

PSU's name	Output voltage	Output current max.	Charging current	Dimensions L x W x H [ $\pm 2$ mm]
PSB-12V2A	13,8 V	2,5 A	0,5 A	110 x 78 x 36
PSB-12V3A	13,8 V	3,5 A	0,5 A	110 x 78 x 36
PSB-12V5A	13,8 V	5,5 A	0,5 / 1 A	129 x 98 x 40
PSB-12V7A	13,8 V	7 A	1 / 2 A	159 x 98 x 42
PSB-12V10A	13,8 V	10 A	1 / 4 A	199 x 110 x 50
PSB-12V15A	13,8 V	15 A	2 / 4 A	214 x 114 x 50
PSB-12V20A	13,8 V	20 A	2 / 4 / 8 A	237 x 168 x 54
PSB-24V2A	27,6 V	2,2 A	0,2 / 0,5 A	129 x 98 x 40
PSB-24V3A	27,6 V	3,5 A	0,5 / 1 A	159 x 98 x 42
PSB-24V5A	27,6 V	5 A	0,5 / 2 A	199 x 110 x 50
PSB-24V7A	27,6 V	7 A	1 / 2 A	214 x 114 x 50
PSB-24V10A	27,6 V	10 A	1 / 2 / 4 A	237 x 168 x 54
PSB-48V3A	54 V	3 A	0,5 / 1 A	199 x 110 x 50
PSB-48V5A	54 V	5 A	0,5 / 1 / 2 A	237 x 168 x 54

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

TECHNICAL DATA	PSB-12V	PSB-24V	PSB-48V
Power supply:	~ 200 - 240 V; 50/60 Hz		
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) or: – F <sub>BAT</sub> fuse (in case of a failure, fuse-element replacement required)		
Overload protection (OLP):	105-150% PSU power, automatically recovered		
Over voltage protection (OVP):	>19 V (after running, disconnect PSU for about 1 minute)	>37 V (after running, disconnect PSU for about 1 minute)	>60 V (after running, disconnect PSU for about 1 minute)
Deep discharge battery protection UVP:	U<9,5 V – disconnection of battery circuit	U<19 V – disconnection of battery circuit	U<38 V – disconnection of battery circuit
Optical indication:	LED green – indicates DC voltage at the power		
LED optical indication output (intended for optional indication set PKAZ168):	LED AC – presence of AC voltage LED DC – presence of DC voltage in output of the PSU LED CHARGE – battery charging		
Operating conditions:	Temperature: -10°C ÷ +40°C relative humidity 20%...90%, without condensation		
Protection class EN 62368-1:	I (first)		
Protection grade EN 60529:	IP20		
Storage temperature:	-20°C...+60°C		
Vibrations and impulse waves during transport:	According to PN-83/T-42106		
Optional equipment:	set of LED optical indication PKAZ168, mounting plates DIN1-4		
Declarations, warranty:	CE, 2 years from production date		
Notes:	Cooling: convectional / forced cooling		