PSBOC series power supply unit



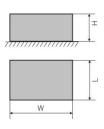
Enclosed buffer switch mode power supply unit 13,8V DC with technical outputs

EN**

CODE **PSBOC751250** v.1.0/IV

TYPE: PSBOC 13,8V/5A/OC Enclosed buffer switch mode power supply unit with technical outputs.







Features:

- 13,8VDC/5A uninterrupted supply*
- wide range of supply voltage 176÷264VAC
- high efficiency 80%
- battery charge and maintenance control
- deep discharge battery protection (UVP)
- battery charging current 0,5A
- battery output protection against short circuit and reverse polarity connection
- LED indication

- EPS technical output indicating AC power loss
 - OC and relay type
- PSU technical output indicating PSU failure
 OC and relay type
- LoB technical output indicating battery low voltage
 OC and relay type
- protections:
 - SCP short-circuit protection
 - OVP over voltage protection
 - surge protection
 - OLP overload protection
- warranty 2 year from the production date

DESCRIPTION

A buffer PSU is intended for an uninterrupted supply to devices requiring stabilized voltage of 12V DC (+/-15%). The PSU provides voltage of U=13,8V DC current efficiency I=4,5A+0,5A battery charging*. In the case of power failure from prime supply, the unit is instantly switched to battery assisted operation.

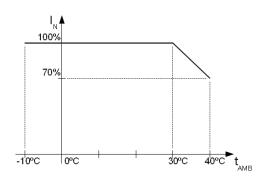
During normal operation, the total current drawn by the equipment may not exceed I = 4,5A. Maximum battery charge current: 0,5A. Total device current + battery: 5A max*.

^{*} See chart 1



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| SPECIFICATIONS | |
|--|---|
| Mains supply | 176 ÷ 264V AC |
| Current consumption | 0,72A@230VAC max. |
| PSU power | 75W max. |
| Efficiency | 80% |
| Output voltage | 11V÷ 13,8DC – buffer operation |
| | 9,5V÷13,8DC – battery-assisted operation |
| Output current t _{AMB} <30°C | 4,5A + 0,5A battery charge – see chart 1 |
| Output current t _{AMB} =40°C | 3A + 0,5A battery charge – see chart 1 |
| Voltage adjustment range | 12÷14V DC |
| Ripple voltage | 120 mV p-p max. |
| Current consumption by PSU systems | 60mA |
| Battery charging current | 0,5A |
| Short-circuit protection SCP | electronic, automatic recovery |
| Overload protection OLP | 105÷150% of power supply, automatic recovery |
| Battery circuit protection SCP and reverse polarity connection | polymer fuse |
| Surge protection | varistors |
| Surge over voltage protection OVP | >16V (automatic recovery) |
| Deep discharge protection UVP | U<9,5V (± 5%) – disconnection of the battery terminal |
| Technical outputs: - EPS; output indicating AC power failure | - relay type: 1A@ 30VDC/50VAC - OC type, 50mA max., normal status: L (0V) level, failure: hi-Z level |
| - PSU; output indicating DC absence/PSU | - relay type: 1A@ 30VDC/50VAC, |
| failure | - OC type, 50mA max., normal status: L (0V) level, failure: hi-Z level |
| - LoB output indicating battery low voltage | relay type: 1A@ 30VDC/50VAC, OC type, 50mA max., normal status: (U_{BAT} >11,5V): L (0V) level, failure: (U_{BAT} <11,5V): hi-Z level The power supply unit does not feature a battery detection function. |
| LED indication | Yes – LEDs |
| Operating conditions | 2nd environmental class, temperature: -10 °C÷40 °C |
| Dimensions | 159 x 97 x 42 +23 [mm] (LxWxH) (+/- 2) |
| Net/gross weight | 0,62kg / 0,65kg |
| Declarations, warranty | CE, RoHS, 2 year from the production date |



Acceptable output current from the PSU depending on ambient temperature.