PSBOC series power supply unit

Enclosed buffer switch mode power supply unit 54V DC with technical outputs

CODE **PSBOC754813** v.1.0/II

TYPE:

PSBOC 754013 V.1.0/// PSBOC 54V/1,3A/OC Enclosed buffer switch mode power supply unit with technical outputs. **EN****

Pulsai









Features:

- 54VDC/1,3A uninterrupted supply*
- wide range of supply voltage 176÷264VAC
- high efficiency 88%
- battery charge and maintenance control
- deep discharge battery protection (UVP)
- battery charging current 0,3A
- 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 **48V DC** (+/-15%). The PSU provides voltage of **U=54V DC** with output current of **I=1A + 0,3A** for battery charging*. In case of power decay, a battery back-up is activated immediately.

During normal operation, the total current drawn by the equipment may not exceed I=1A. Maximum battery charging current: 0,3A. Total device current + battery: 1,3A 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	88%
Output voltage	44V÷ 54V DC – buffer operation
	38V÷ 54V DC – battery-assisted operation
Output current t _{AMB} <30°C	1A + 0,3A battery charge – see chart 1
Output current t _{AMB} =40°C	0,6A + 0,3A battery charge - see chart 1
Voltage adjustment range	48÷56V DC
Ripple voltage	150 mV p-p max.
Current consumption by PSU systems	70 mA
Battery charging current	0,3A
Short-circuit protection SCP	electronic, automatic recovery
Overload protection OLP	105÷150% of power supply, automatic recovery
Battery circuit protection SCP and reverse	polymer fuse
polarity connection	polymentuse
Surge protection	varistors
Surge over voltage protection OVP	>62V (automatic recovery)
Deep discharge protection UVP	U<38V (± 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} >46V): L (0V) level, failure: (U _{BAT} <46V): 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	0,59kg / 0,65kg
Declarations, warranty	CE, RoHS, 2 year from the production date

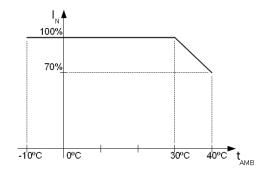


Chart 1. Acceptable output current from the PSU depending on ambient temperature.

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