Pulsai

PSBOC series power supply unit

Enclosed buffer switch mode power supply unit 27,6V DC with technical outputs

CODE

TYPE:

PSBOC30024100 v.1.0/II

PSBOC 27,6V/10A/OC Enclosed buffer switch mode power supply unit with technical outputs.





- 27,6V DC/10A uninterrupted supply*
- wide range of supply voltage 176+264VAC
- built-in power factor correction system (PFC)
- high efficiency 85%
- battery charge and maintenance control ٠
- deep discharge battery protection (UVP) •
- battery charging current 1A/2A/4A jumper selectable
- forced cooling built-in fan
- 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
 - overheat protection OHP
- warranty 2 year from the production date

DESCRIPTION

A buffer PSU is intended for an uninterrupted supply to devices requiring stabilized voltage of 24V DC (+/-15%). The PSU provides voltage of U=27,6V DC current efficiency:

- 1. Output current 9A + 1A battery charging*
- 2. Output current 8A + 2A battery charging*
- 3. Output current 6A + 4A battery charging*

Total device current + battery: 10A max*.

In the case of power failure from prime supply, the unit is instantly switched to battery assisted operation. The power supply unit features: short circuit, overload protection, overvoltage and thermal overload protection. The power supply is fitted with a fan for forced cooling, switching on depending on the temperature and the load of the power supply.

* See chart 1

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SPECIFICATIONS	
Mains supply	176 ÷ 264V AC
Current consumption	1,5A@230VAC max.
PSU power	300W max.
Efficiency	85%
Power factor PF	>0,95 @230V AC
Output voltage	22V÷ 27,6V DC – buffer operation
	19V+27,6V DC – battery-assisted operation
Output current t _{AMB} <30°C	9A + 1A battery charge – see chart 1
	8A + 2A battery charge – see chart 1
	6A + 4A battery charge – see chart 1
Output current t _{AMB} =40°C	6A + 1A battery charge - see chart 1
	5A + 2A battery charge - see chart 1
	3A + 4A battery charge – see chart 1
Voltage adjustment range	24÷28V DC
Ripple voltage	150 mV p-p max.
Current consumption by PSU systems	50 mA
Battery charging current	1A/2A/4A jumper selectable
Short-circuit protection SCP	electronic, automatic recovery
Overload protection OLP	105÷150% of power supply, automatic recovery
Battery circuit protection SCP and reverse	glass fuse
polarity connection	
Surge protection	varistors
Surge over voltage protection OVP	>32V (activation requires disconnecting the load or supply for about 20 s.)
Deep discharge protection UVP	U<19V (± 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
DOUL substitution in the DO shows a /DOUL	
- PSU; output indicating DC absence/PSU failure	 - relay type: 1A@ 30VDC/50VAC, - OC type, 50mA max., normal status: L (0V) level, failure: hi-Z level
lailule	- OC type, soma max., normal status. L (00) level, failure. hi-z level
- LoB output indicating battery low voltage	- relay type: 1A@ 30VDC/50VAC,
	- OC type, 50mA max., normal status: $(U_{BAT} > 23V)$: L (0V) level, failure:
	(U _{BAT} <23V): 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	275 x115 x 50 +23[mm] (LxWxH) (+/- 2)
Net/gross weight	1,40kg / 1,50kg
Declarations, warranty	CE, 2 year from the production date

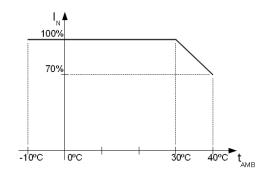


Chart 1. Acceptable output current from the PSU depending on ambient temperature.