

Power System Controller PSC 1



Illustrative photo

General Features

- Float voltage control
- Temperature compensation
- Battery current limit
- Boost charge
- Battery test, advanced capacity test
- LVD control
- Analogue system bus
- Simple user interface

Applications

- Small power systems
- Digital subscriber line (DSL)
- Transmission
- PBX

Description

The PSC 1 is a simple power system controller for small power systems. It consists of a compact central unit providing basic I/O periphery, and of an analogue based communication bus to the rectifiers. The user friendly display quickly displays basic information about the current status of the power system. The controller's battery management with regularly accomplished capacity tests is one of the key factors for the availability of a power system. The PSC 1 controller allows also remote alarming by means of potential-free relay contacts.

Technical data

General	
Safety	EN 60 950, class I UL 60 950 CAN / CSA – C22.2
EMI, radiated	EN 55 022, class B
Compliant with	EN 300 386-2
Cooling	Convection
Mounting direction	Horizontal / Vertical
Protection	IP 20

Power Supply	
Voltage range	18 to 75 V _{DC}
Maximum current	50 mA _{DC} , max.
EMI, conducted	EN 55 022, class B
Input protection	Internal fuse
Input switch	None

Features	
Rectifier interface	Analog
Number of rectifiers	Max. 16
Digital input	Max. 4
Relay output	Max. 6
Temperature	Max. 2
Voltage, current	Max. 3
Display	LCD
Local monitoring	LCD and RS232
Remote monitoring	None. (refer to PSC 3)
Remote alarming	Dry contacts

Functions	
Float voltage control / Temperature compensation	
Battery current limit, enhanced	
Boost charge	
Battery test, advanced capacity test	
LVD functions	
Mains failure detection	
20 data log entries	

User Interface	
Status indication	LED «alarm» LCD with backlight Rectifier status indication on each rectifier module

Mechanical detail	
Height, body	40,4 mm / 1U
Width, overall	83.4 mm / 2U
Depth, overall	195 mm / 7.7 inch
Weight	0.3 kg / 6.6 lb

Environment	
Operating temperature	-40 to +75°C / -40 to +167°F (0 to +60°C / +32 to +140°F full performance)
Relative humidity	95% max. Non condensing