

# Power System Controller PSC 3

The Power behind.



## Main features

- Modular power system controller
- Integrated PLC for flexible system configuration
- Easy system expansion
- Digital system bus
- Enhanced battery management
- Remote monitoring with modem or LAN
- Integrated web server
- SNMP
- Energy saving functions
- New alarming concepts
- Monitoring of auxiliary devices
- Advanced site monitoring & control

## Applications

- Small to large power systems
- Decentralised power plants

## Description

The PSC 3 is a 3rd generation power system controller. This product is an optimum solution for small to very large and complex power systems. It consists of a central unit, which provides basic I/O periphery, and of a very robust and reliable CAN standard based communication bus, providing easy expansion.

The front end modules are located close to the elements to be monitored. The benefit is an easy wiring, which is perfect for expandable power systems with decentralised distributions (BDFB) and batteries in separate rooms. The integrated PLC offers the flexibility for monitoring and control of auxiliary devices, later functions upgrade and system capacity expansions.

New enhanced system functions support the reduction of operating costs. The battery management with regularly accomplished capacity tests is one of the key factors for the availability of a power system. The PSC 3 allows remote alarming by means of potential-free relay contacts or via modem or LAN / Ethernet. The SNMP offers enhanced remote alarming and is designed to work with SNMP managers. An integrated web server offers a user friendly interface for detailed monitoring and control with a standard web browser.

# Power System Controller PSC 3

## Technical Specifications

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	All
Protection	IP 20

Power supply	
Voltage range	18 ... 75 V <sub>DC</sub>
Current	0.75 A <sub>DC</sub> maximum
EMI, conducted	EN 55 022, class B
Input protection	External fuse 2A
Input switch	None

Features	
Rectifier interface	Digital, CAN-based
Number of rectifiers	Up to 128
Digital input	Up to 225
Relay output	Up to 97
Temperature	Up to 96
Voltage, current	Up to 96
Display	Up to 2 User interface modules
Local monitoring	LAN / RS232 / Web browser
Remote monitoring	LAN / Modem / Web browser
Remote alarming	Dry contacts / SNMP
Languages	English + 1 downloadable
Web server access	Up to 4 levels
SNMP management	Standard SNMP manager

Functions	
Float voltage control / Temperature compensation	
Battery middle point	
Battery block voltage, up to 256	
Battery current limit, enhanced	
Boost charge	
Equalise	
Battery test, advanced capacity test	
LVD and PLD functions, up to 96	
Real time clock (option)	
Genset functions	
Individual rectifier control	
Efficiency mode / Energy saving	
Rectifier cycling	
Sequential startup	
PLC functionality / event generator	
200 data log entries	
Remote function upgrade	
Mains failure detection	

User interface	
Status indication	LED «ok» LED «alarm»
User interface (option)	5 configurable LED LCD display Keypad

Mechanics	
Height, body	43 mm / 1.69 inch
Width, overall	86.5 mm / 3.41 inch
Depth, overall	180 mm / 7.09 inch
Weight	0.6 kg / 13.2 lb

Environment	
Operating temperature	-25 ... +60°C / -13 ... +140°F
Relative humidity	95 %, non condensing

Options	
User Interface Module	LCD display and keys
Modem interface	RS 232
Real time clock	
See document PSC 3 accessories.	

Subject to change due to technical progress.