

SM36 Supervisory Module

COMMUNICATIONS

FEATURES

- Supports Micro Compact Systems
- Serial control for up to 126 rectifiers / converters modules, plus peripheral devices
- Temperature compensation
- Battery current limiting
- Setup from front panel or PC
- Fast charge control and timer
- LCD display of parameters
- Web based configuration
- TCP/IP interface and SNMP for remote monitoring
- USB port for local connection



SPECIFICATIONS

MONITORING

Voltage	System voltage, rectifier voltage
Current	Rectifier current, battery current charge & discharge
Temperature	Battery temperature via optional sensor and cable
Distribution	Failure of battery, load MCB's and LVD

INTERFACE

Display	4 line x 16 character multi-lingual alpha numeric display
Communications Serial	1x USB port on front panel for local PC interface 1x RS232 port, rear mounted for remote serial/modem communications
Relay	6x alarm and control relays, five of which can be mapped for customized alarm settings
TCP/IP	Ethernet interface for communication using SNMP protocol and internal web based configurator
LVD	3x standard or 2x pulse control LVD contacts. (for magnetically latched LVD contactors)

INDICATORS

3x LED's	Green - power on/monitor OK Yellow - non urgent alarm Red - urgent alarm
Audible	90dBA buzzer mappable to user defined conditions
Controls	3x push buttons for parameter setting or viewing on front panel
Signal Inputs	2x serial buses for rectifier control and interface to peripheral modules 10x general purpose inputs. (6x for customer connection, 4x reserved for internal system connection) 4x battery MCB sensors. (reserved for internal system connection) 3x current shunt inputs. (reserved for internal system connection) 1 x DC voltage inputs (reserved for internal system connection).

Alarms	6x alarm relay
Alarm contacts	0.3A 100V volts free changeover contacts
Default alarm Mmap	Relay 1: Monitor fail. (non programmable) Relay 2: Non-urgent. (programmable) Relay 3: Urgent. (programmable) Relay 4 - 6: Unassigned
Periodic and event Logging	Typically 16000 records. (dependant on number of parameters logged)
Battery mid-point monitoring	3x strings with individual string currents. (more available with shared string currents)

PHYSICAL

Dimensions, W, H, D	111.5mm , 44mm (1U), 265mm overall (rack depth 244mm)
Weight	365g
Connections	Relay outputs, mini combicon to accept 1.5mm csa wire Serial communications to rectifier shelf & peripheral devices - RJ45. USB port - USB mini B
Operating temperature	-25 to +55°C
Storage temperature	-50 to +85°C

COMPLIANCES

Radiated emissions	EN55022
RF susceptibility	EN55024

OPTIONAL ACCESSORIES

ACA-TC3C	3m temperature sensor and cable
ACA-TC7	7m temperature sensor and cable
ASM-AC3P	3 phase AC voltage and current monitor
ASM-ABM-24	Battery condition monitor, 24 blocks. (maximum 4x BCM cards)
ASM-SM36IO	Standard I/O expansion board (maximum of 4 per supervisory module)

PART NUMBER

SM36-00	Standard 1U modular controller, 6x relays, 6x digital inputs
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