

SMU01

Smart Monitoring Unit

PRODUCT DESCRIPTION

SMU01 is an intelligent controller suitable for use with Enetek's range of telecom rectifiers and Solar Converter. The simple and effective controller unit offers a complete power system management function including data acquisition and processing, battery management as well as monitoring and control of the system solution.

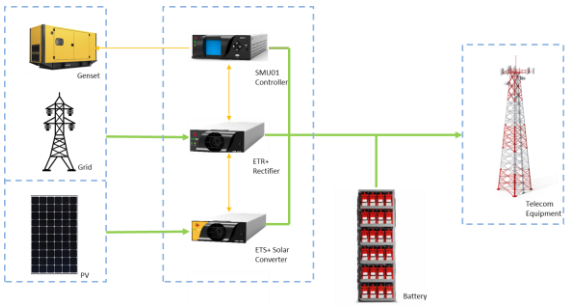
The user-friendly SMU01 controller, coupled with its compact size and easy-to-use interface, is highly adaptable and can be incorporated into small design spaces.

KEY FEATURES

- Control and management for rectifier, Solar Converter modules and peripheral devices
- Manages up to 40 x rectifier modules
- Alarm/Data logging @ >10,000 records
- Multiple language options
- Intelligent energy saving management
- Comprehensive battery management including mid-point monitoring, temperature compensation and capacity testing
- Multiple LVD controls
- Site information management
- Local display with 4 keys for menu navigation
- Web-based configuration
- TCP/IP and SNMP interface for remote monitoring
- RS485 for data collection from 3rd party equipment (Li-ion Batteries, Smart meter etc.)

OPTIONAL FEATURES

- AC parameters monitoring module (voltage, current frequency)
- 24-point battery monitoring module c/w 2 x temperature sensor
- Extended DC monitoring module (20 x load Fuse Monitoring, 20 x current Monitoring)
- Extended digital input/output module c/w fan management, Hybrid System



TECHNICAL SPECIFICATIONS

PART NUMBER	401210.100
Compatibility	Enetek's range of rectifier and Inverter solutions
SPECIFICATIONS	
Input Voltage Range / Power	18Vdc to 60Vdc @ 27W
Display	1.5" LCD
User Interface	3 x LED, 4 x user buttons
Communication Interface	USB, RS485, Modbus-TCP/IP, SNMP (V1,V2C,V3), HTTP/SSL
Operating Temperature Range	-40 to +75°C
Storage Temperature Range	-40 to +85°C
Relative Humidity	Operating: 5%-95% non-condensing; Storage: 0%-99% non-condensing
MTBF	>300,000hrs (Ambient temp of 25°C)
Weight (kg)	< 0.5
Dimensions (WxHxD) mm	108 x 43 x 234 (mm)
SYSTEM INTERFACE	
1 x Voltage sensing (expansion module available)	6 x Digital inputs (expansion module available)
2 x Current sensing (expansion module available)	6 x Digital outputs (expansion module available)
2 x Temperature sensing (expansion module available)	Battery mid-point measurement
Up to 2 x LVD	Load/battery fuse monitoring
SYSTEM FEATURES	
AC voltage measurement (via optional module)	User configurable alarms and settings
Alarm grouping and alarm mapping	Auxiliary input and load monitoring
Alarm Logs (> 10,000 events)	User profile configuration
Data logs (> 10,000 logs)	Multi languages Option
Site information and management	Up to 3 levels of password settings
BATTERY FEATURES	
Battery temperature measurement	Low voltage disconnection
Temperature compensated charging	High/low battery voltage
Automatic float/boost charging	High/low battery temperature
Automatic battery capacity test	Optional 24-point measurement
RECTIFIER FEATURES	
Individual rectifier information	Efficiency management (intelligent energy management)
Rectifier current, temperature and status monitoring	Remote control including voltage adjustment
Active current sharing	Overload monitoring
Power limit walk-in	Module position addressing
CONTROL and MONITORING	
Local management through LCD, 3 x LED and 4 x user buttons	Full monitoring and control functions can be accessed locally through the use of the 4 user buttons.
DESIGN STANDARDS (SAFETY)	
EN62368-1	
DESIGN STANDARDS (EMC)	
EN55032, EN55035	
DESIGN STANDARDS (OTHERS)	
CE, RoHS compliant	