



# 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.

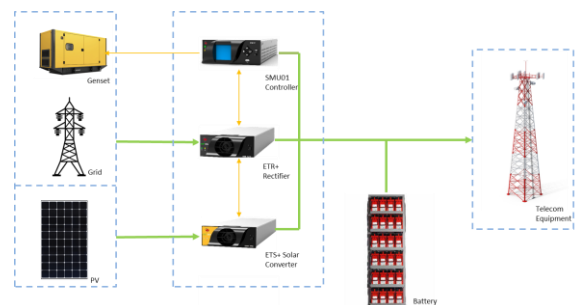
The user-friendly SMU01 controller, coupled with its compact size and easy-to-use interface, is highly adaptable and can be incorporated into small design spaces.

### KEY FEATURES

- Control and management for rectifier, Solar Converter modules, Inverter 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 3<sup>rd</sup> 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                                         |                                                                                                      |