



# 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.

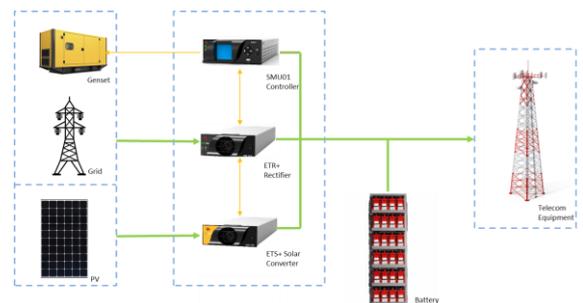
The user-friendly SMU01 controller, coupled with its compact size and easy-to-use interface, is highly adaptable and can be incorporated into small design spaces.

### KEY FEATURES

- Control and management for rectifier, Solar Converter modules and peripheral devices
- 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-on 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

<b>MODEL</b>		<b>SMU01</b>
Compatibility	Enetek's range of rectifier solutions	
<b>SPECIFICATIONS</b>		
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, TCP/IP (Modbus), SNMP	
Operating Temperature Range	-40 to +75°C	
Storage Temperature Range	-40 to +85°C	
Relative Humidity	Operating: 0%-95% non-condensing; Storage: 0%-99% non-condensing	
MTBF	>300,000hrs (Ambient temp of 25°C)	
Weight	< 0.5kg	
Dimensions	108(W) x 220(D) x 43(H) mm	
<b>SYSTEM INTERFACE</b>		
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	
<b>SYSTEM FEATURES</b>		
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	
<b>BATTERY FEATURES</b>		
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	
<b>RECTIFIER FEATURES</b>		
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	
<b>CONTROL and MONITORING</b>		
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.	
<b>DESIGN STANDARDS (SAFETY)</b>		
EN60950-1		
<b>DESIGN STANDARDS (EMC)</b>		
EN61000-6-4-2/-4/-5		
<b>DESIGN STANDARDS (OTHERS)</b>		
CE, RoHS compliant		

Due to continuous product development, specifications are subject to change without prior notice

Rev02

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