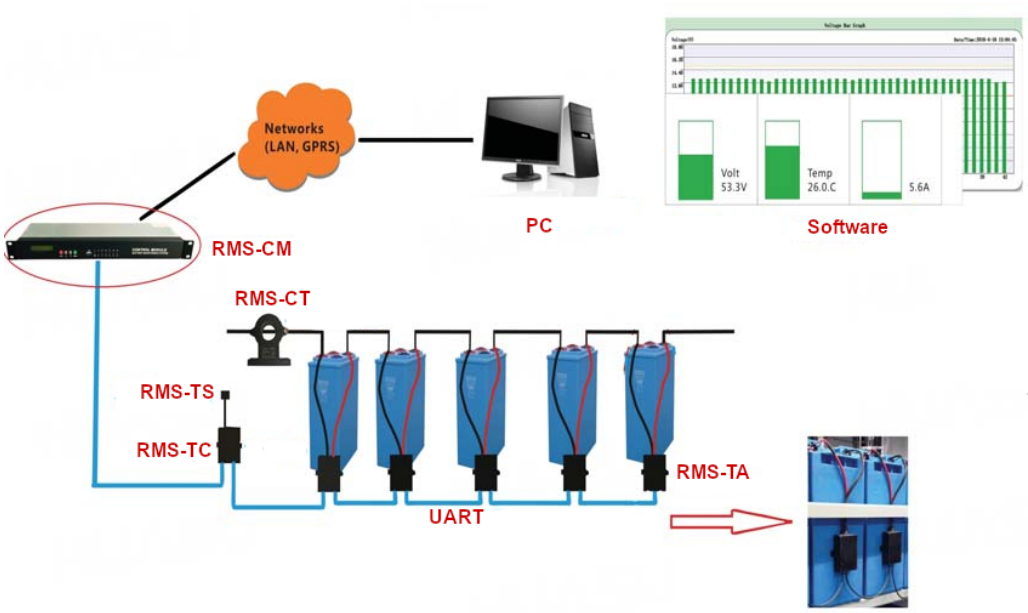
REKOSER

RMS-TA

OVERVIEW

The RMS-TA Battery Monitoring System is designed specifically for single battery monitoring. RMS-TA module advanced technology provides the most comprehensive stationary battery health analysis in the industry.

- Continuous 24/7 online monitoring
- One TA module device per battery to monitor internal resistance, voltage and temperature
- Software is available to retrieve data from TA module
- Serial port with optical isolation, meets Modbus specification
- Interfaces with most UPS controllers
- User-friendly installation



FEATURES

- Full resistance, battery temperature and voltage monitoring for comprehensive battery state of health analysis
- String current and ambient temperature monitoring (requires RMS-TC module)
- Automatic analysis of battery monitoring data to, identify the batteries that need replacement or maintenance (requires RMS-CM module)
- All operating parameters can be set via the serial bus
- Panel lights indicate when alarm is raised, which can also be read via the serial bus
- Store historical data, including up to 24 battery voltage readings; 720 string voltage readings; 12 internal resistance readings; 15 temperature readings; 100 alarms and 50 events
- PC software is available for management of multiple strings, real-time querying and historical data

SPECIFICATIONS

Environmental
Operating temperature: -5 °C~50°C, 5%~90%RH
Storage temperature: -10 °C~70°C, 5%~90%RH

Usage
1.2V,2V, 6V or 12V batteries, capacity less than 3500AH

Power Requirements
RMS-TA module : battery-powered, less than 13mA (1.2V,2V) or 7mA(6V&12V) quiescent
RMS-TC module: 8~13VDC, 2W
RMS-C: 8~13VDC, 0.3W
RMS-CM module: 85~264VAC, DC48V(36-72VDC) 110V~370VDC, 15W

Protection
Battery circuit is fused
RMS-TA module with reverse polarity protection and optical isolation

Measurement Range & Accuracy
String voltage: 20~800V, ±(0.5%+0.2V)
Cell voltage: 0.8~2.5V, ±(0.1%+1mV)
3.5-7.5V, ±(0.1%+10mV)
9~15V, ±(0.1%+10mV)
Internal resistance: 50~65535u □ □ ±2%)
Battery temperature: -5 °C~99.9°C, ±1°C
String current: 0~1000A, ±1% (Full scale)

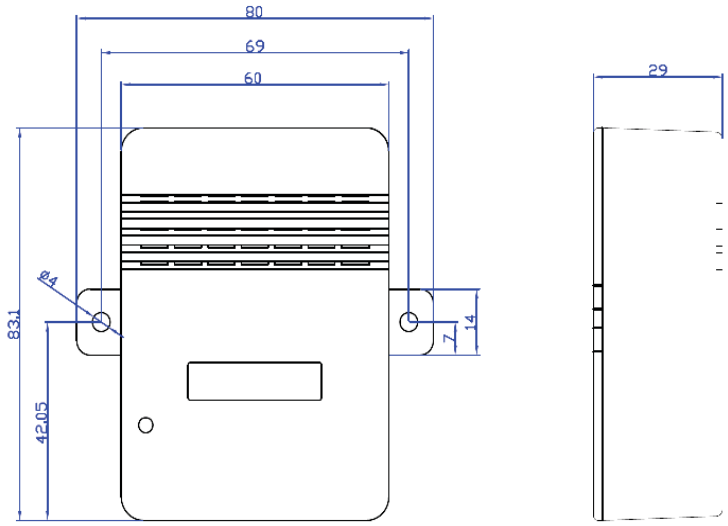
Installation
Mount on battery or DIN rail

Communications Interfaces
RMS-TA module: serial port meets Modbus , supports 130 devices on each bus
RMS-TC module: serial port meets Modbus
RMS-CM module: RS485, Ethernet Port, meets Modbus/ RTU, Modbus/TCP and SNMP
Insulation: 2000VAC

Weight
RMS-TA module: 80g
RMS-TC module: 75g
RMS-CM module: 1.8Kg

Standards
UL61010-1
CE
Rohs

DIMENSIONS



(Unit: mm)

OPTIONS

1. Converter
   Use for applications without RMS–CM module and connect directly to third-party controller.
2. Software
   PC software available to retrieve and display data from RMS-CM module

APPLICATIONS

- UPS
- Telecommunications
- Battery supplied applications
- Utilities
- Fire & Safety systems
- Remote monitoring