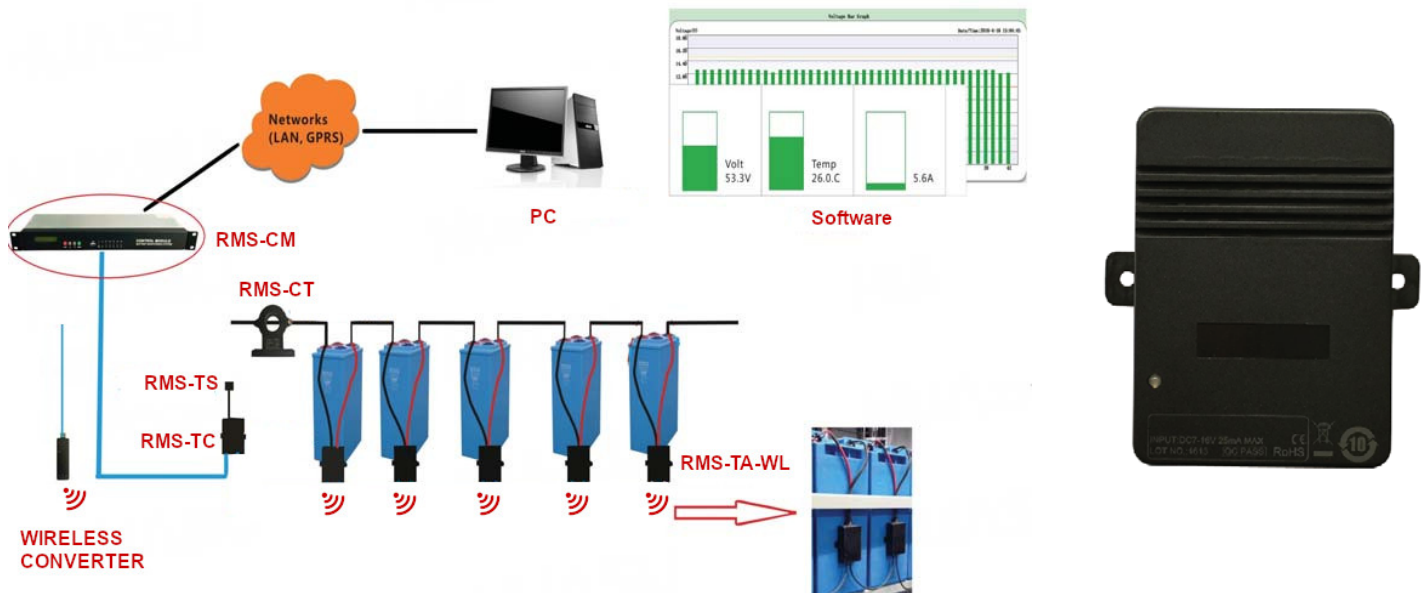


OVERVIEW

RMS-TA-WL is based on existing mature RMS-TA module system and reduces half of the wiring job.

- 24/7 online monitoring
- One wireless module monitor one battery, including internal resistance, voltage and temperature according ANSI/TIA-942.
- Software is available to retrieve data from wireless RMS-TA-WL module
- Serial port with optical isolation, meets Modbus specification
- Interfaces with most UPS controllers



FEATURES

- 2.4G RF communication with more secure and convenient
- Test battery internal resistance at regular intervals and analyze the internal resistance variation trend, it can alarm disabled battery in advance.
- It approached battery internal temperature and find thermal runaway battery.
- It can equalize battery voltage manually or automatically.
- It records battery voltage, battery string voltage, discharge current and discharge capacity automatically when the batteries discharge; it also automatically identifies discharge process and adjusts collection frequency to the fastest.
- It can set or modify operation parameter and alarm threshold in local or remote; this operation has authorization password protect.
- CM module has RS485, Ethernet Port, meet MODBUS/RTU, MODBUS/TCP, SNMP protocol and dry contact; it is easy to access third party monitoring system.

SPECIFICATIONS

Environmental

Operating temperature: $-5^{\circ}\text{C}\sim 50^{\circ}\text{C}$, 5%~90%RH
Storage temperature: $-10^{\circ}\text{C}\sim 70^{\circ}\text{C}$, 5%~90%RH
Atmospheric pressure: 80~110kPa

Monitoring Ability

Max. 300 batteries per string
1 pc RMS-CM module Max manages 6 strings.
1 pc RMS-CM module Max manages 960 batteries

Usage

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

Power Requirements

RMS-TA-WL module: battery-powered, less than 40mA
(2V) or 20mA (6V, 12V) quiescent
RMS-TC module: 8~13VDC, 2W
Converter: 8~13VDC, 0.3W
RMS-CM module: 85~264VAC, 100V~370VDC, 15W

Protection

Measuring and power circuit with 2 stage protection.
RMS-TA-WL module has reverse polarity protection and optoelectronic isolation.

Measurement Range & Accuracy

String voltage: 20~800V, $\pm(0.5\%+0.2\text{V})$
Cell voltage: 0.8~2.5V, $\pm(0.1\%+1\text{mV})$
3.5-7.5V, $\pm(0.1\%+10\text{mV})$
9~15V, $\pm(0.1\%+10\text{mV})$
Internal resistance: 50~65535u $\square \square \pm 2\%$
Battery temperature: $-5^{\circ}\text{C}\sim 99.9^{\circ}\text{C}$, $\pm 1^{\circ}\text{C}$
String current: 0~1000A, $\pm 1\%$ (Full scale)

Installation

Mount on battery or DIN rail

Communications Interface

RMS-TA-WL module: serial port meets Modbus.
RMS-TC module: serial port meets Modbus
RMS-CM module: RS485, Ethernet Port, meets Modbus/
RTU, Modbus/TCP and SNMP

Insulation: 2000 VAC

Durability

MTBF: 100,000 hours

Weight

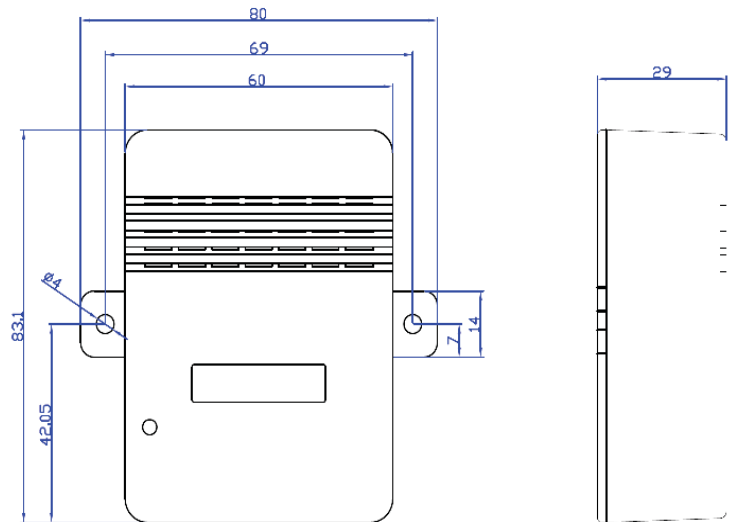
RMS-TA-WL module: 80g;
RMS-TC module: 75g,
RMS-CM module 1.8Kg,
Wireless converter: 50g

Standards

CE, ROHS, FCC



DIMENSIONS



(Unit: mm)

OPTIONS

RMS-MM: monitoring module with 5.6 inch touch screen, it can connect CM directly and query real time alarm and data.

APPLICATIONS

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