

# H3G-TA Battery Monitoring System

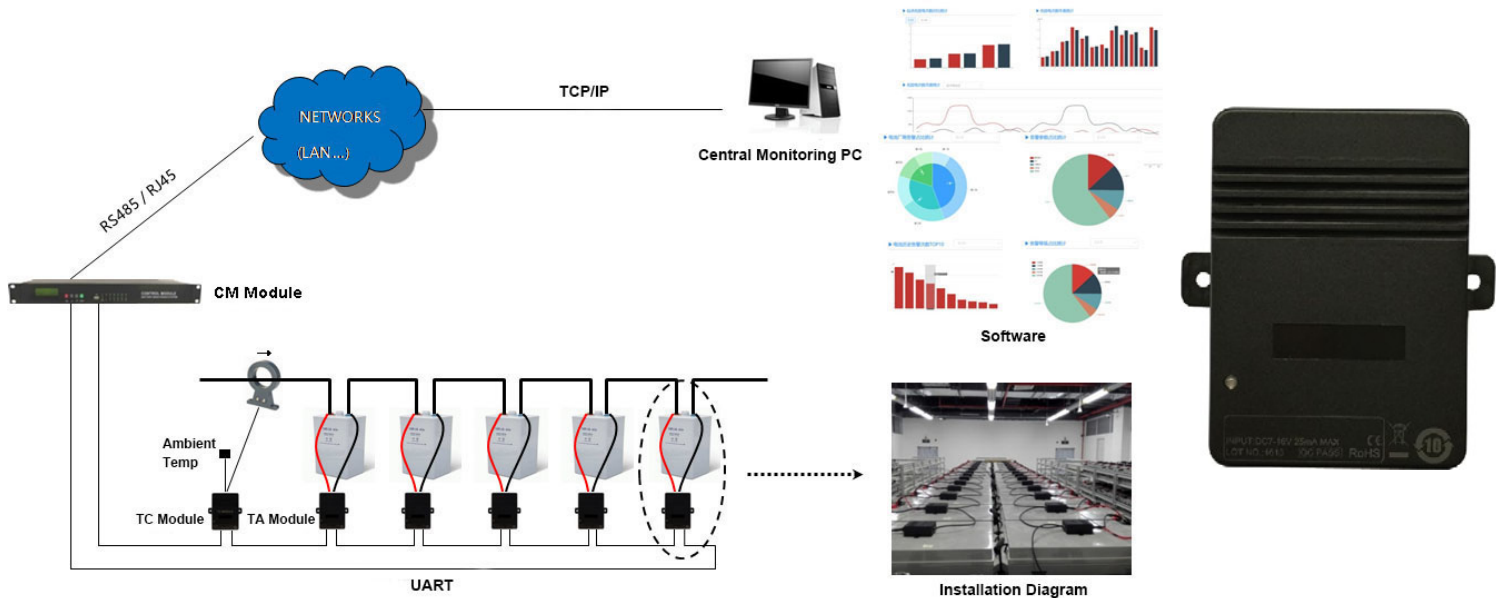
Internal Resistance, Voltage and Temperature Measurements



## OVERVIEW

The H3G-TA Battery Monitoring System is designed specifically for single battery monitoring. TA module advanced patented 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 TC module)
- Automatic analysis of battery monitoring data to, identify the batteries that need replacement or maintenance (requires 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, take one string 300 batteries as an example : up to 423 cells voltage readings; 3413 string voltage current readings; 58 internal resistance readings; 282 temperature readings; 2925 alarms and 2730 events
- PC software is available for management of multiple strings, real-time querying and historical data

## SPECIFICATIONS

### Environmental

Operating temperature:	-10°C~50°C
Relative humidity:	5%~95%
Atmospheric pressure:	80~110kPa

### Usage

1.2V, 2V, 6V or 12V batteries, capacity less than 3000AH

### Power Requirements

TA module:	battery-powered, less than 13mA (1.2V,2V)or7mA(6V&12V)quiescent
TC module:	8~13VDC, 2W
CM module:	100~240VAC, 110V~370VDC (standard), DC48V(36-72VDC), 15W

### Protection

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

### Measurement Range & Accuracy

String voltage:	20~800V; ±0.5%; 0.1V
Cell voltage:	1.2V, 2V, 6V, 12V; ±0.1%; 0.001V
Internal resistance:	50~65535uΩ, ±2%, 1uΩ
Battery temperature:	-5°C~99.9°C, ±1°C, 0.1 °C
String current:	0~1000A, ±1% (Full scale), 0.1A

### Installation

Mount on battery or DIN rail

### Communications Interfaces

TA/TC module: UART port, support Modbus protocol  
CM module: RS485, 10/100M LAN port, meets Modbus/ RTU, Modbus/TCP and SNMP protocols (Max. support 6 strings or 960 cells)

Insulation: 2000VAC

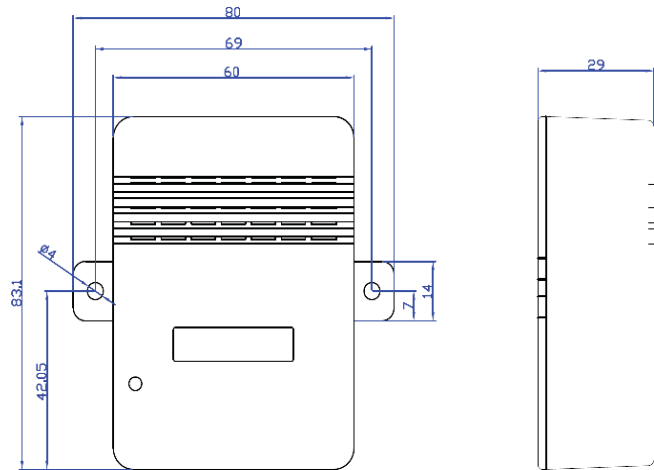
### Weight

TA module:	80g
TC module:	75g
CM module:	1.8Kg

### Standards:

EMC: EN61326-1:2013 EN61326-2-1:2013  
Safety: EN61010-1:2010 UL61010-1:2013  
UL, CE, RoHS certification

## DIMENSIONS



(Unit: mm)

## OPTIONS

- Software  
PC software available to retrieve and display data from CMmodule

## APPLICATIONS

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



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