H3G-TV Battery Monitoring System

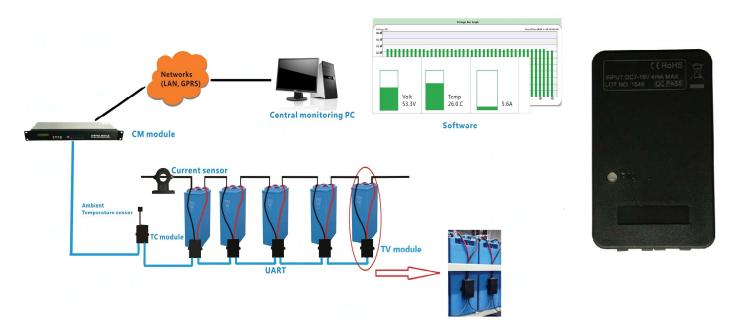


Voltage and Temperature Measurements

OVERVIEW

The H3G-TV battery monitoring system is designed for single battery monitoring. H3G-TV advanced patented technology provides the most comprehensive stationary battery health analysis in the industry. One H3G-TV system comprises the TV, TC and CM modules.

- 24/7 online monitoring
- Monitors voltage and temperature of a single battery
- PC software available to retrieve data from TV module
- Serial port with optical isolation, meets Modbus specification, easily accessed via UPS controller
- User-friendly installation



FEATURES

- Full battery temperature and voltage monitoring for comprehensive battery state of health analysis
- String current and ambient temperature monitoring (requires TC module)
- Auto-analysis of battery monitoring data, to identify batteries that need replacement or maintenance (requires CM module)
- Panel lights indicate when alarms are 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
- All operating parameters can be set via serial bus
- PC software is available for management of multiple strings, real-time alarms and historical data

SPECIFICATIONS

Environmental

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

Usage

2V, 6V or 12V batteries

Power Requirements

TV module: battery-powered, less than 12mA(2V) or

4mA(12V) quiescent

TC module: 8~13VDC, 2W Convertor: 8~13VDC, 0.3W

CM module: 85~264VAC, 100V~370VDC, 15W

Protection

Battery circuit is fused

TV module with reverse polarity protection and optical

isolation

Measurement Range & Accuracy

Battery voltage: 1.5~2.5V, ±(0.1%+1mV) String voltage: 20~800V, ±(0.5%+0.2V)

9~15V, ±(0.1%+10mV)

String current: 0~500A, ±2%(Full scale)

Battery temperature: 5°C~70°C, ±1.5°C Ambient temperature: -10°C~70°C, ±0.5°C

Installation

Mount on battery or DIN rail

Communications Interfaces

TV module: serial port, meets Modbus protocol,

supports up to 130 devices on

each bus

TC module: serial port meets Modbus

CM module: RS485, Ethernet port, meets Modbus/

RTU, Modbus/TCP and SNMP

Insulation: 2000VAC

Weight

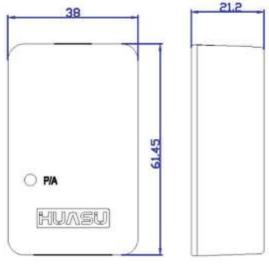
TV module: 50g TC module: 260g CM module: 1800g

Standards

UL61010-1

CE RoHs

DIMENSIONS



(Unit: mm)

OPTIONS

1. Converter

Use for applications without the CM module and connect directly to a controller

2. Software

PC software available to retrieve and display data from CM module

APPLICATIONS

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



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