

## H3G-TV Intelligent Battery Monitor

### Voltage and Temperature Measurements



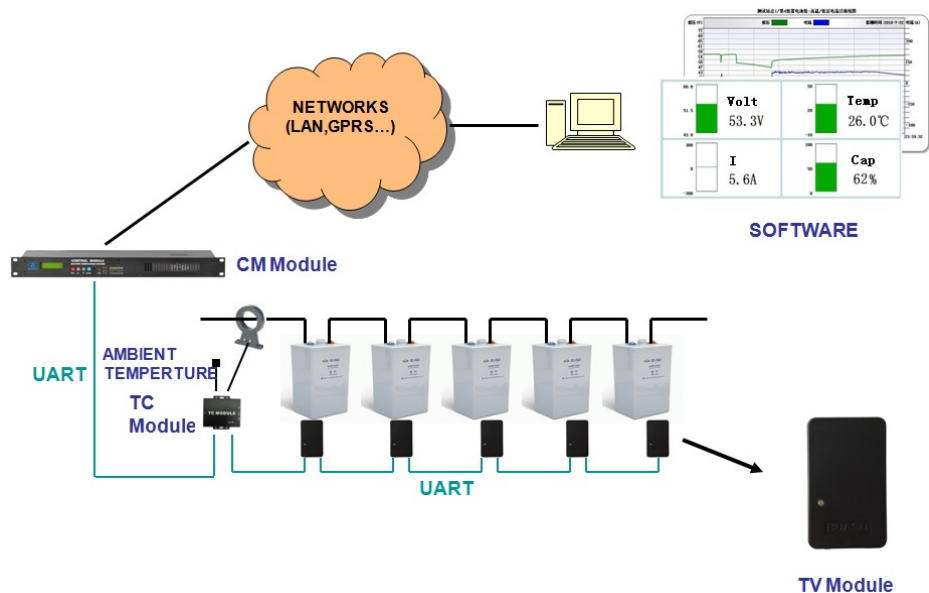
- Continuous 24/7 on-line monitoring
- One TV module monitors one cell, including voltage and temperature
- Software is available to collect data from TV module
- Serial port with Optical isolation, meet MODBUS protocol, easy to be accessed by UPS controller
- Easy to install without specialized training



## Overview

H3G-TV intelligent battery monitor is designed specifically for single cell. H3G-TV combines the advanced technology with patented for the most thorough stationary battery health analysis in the industry.

One H3G-TV system includes TV modules, TC module and one CM module.



## Features

- Full battery temperature and voltage monitoring for comprehensive battery state of health analysis
- String current and ambient temperature monitoring ( need TC module )
- Automatic analysis of battery monitoring data, find out the batteries that need replacement or maintenance ( need CM module )
- With a big storage space to save history data
- Lights on panel flash when alarms rise up which also can be read over through serial bus
- All operating parameters can be set over through serial bus
- A software based on PC is available to manage multiple strings, check real-time alarm and historical data

## Specifications

### Environmental

Operating temperature:  $-5^{\circ}\text{C} \sim 50^{\circ}\text{C}$ ,  $5\% \sim 90\% \text{RH}$

Storage temperature:  $-10^{\circ}\text{C} \sim 70^{\circ}\text{C}$ ,  $5\% \sim 90\% \text{RH}$

### Used for

2V, 6V or 12V battery

### Power Requirements

TV module : powered from the battery , less than 12mA(2V) or 4mA(12V)

TC module : DC8 ~ 13V, 2W

Convertor: DC8 ~ 13V, 0.3W

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

### Protection

Test load and power paths are fused

### Measurement Range & Accuracy

String voltage : 20 ~ 800V ,  $\pm(0.5\%+0.2\text{V})$

Cell voltage : 1.5 ~ 2.5V ,  $\pm(0.1\%+1\text{mV})$

9 ~ 15V ,  $\pm(0.1\%+10\text{mV})$

Battery temperature :  $5^{\circ}\text{C} \sim 70^{\circ}\text{C}$ ,  $\pm 1.5^{\circ}\text{C}$

Ambient temperature:  $-10^{\circ}\text{C} \sim +70^{\circ}\text{C}$  ,  $\pm 0.5^{\circ}\text{C}$

String current : 0 ~ 500A,  
 $\pm 2\%$  ( Full scale )

### Communications Interfaces

TV module : serial port, meet MODBUS protocol, support 130 devices on each bus

TC module : serial port, meet MODBUS protocol

CM module : RS485, Ethernet Port , meet MODBUS/RTU, MODBUS/TCP and SNMP protocol

### Insulation

2000VAC

### Installation

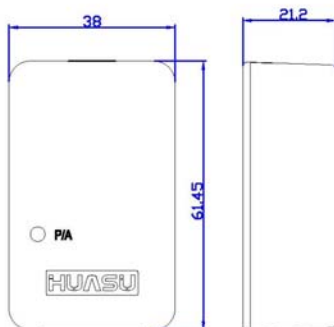
Paste on battery or rail mounting

### Weight

TV module: 50g      TC module: 260g

CM module: 1.8Kg

## Dimensions



(Unit: mm)

## Applications

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

## Options

1. Converter  
Used for the applications without CM module and connector to a controller directly.
2. Software  
It can be installed on PC and read and display data from CM module



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