

CELLCHECK™ Intelligent Battery Monitor

Internal Resistance, Voltage and Temperature Measurements

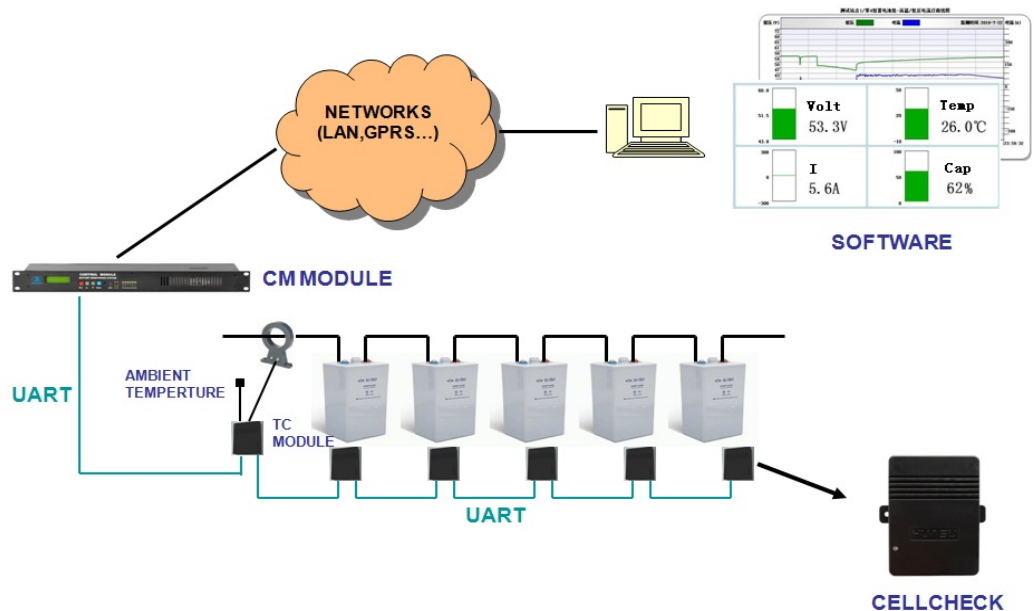


- Continuous 24/7 on-line monitoring
- One CELLCHECK monitor one cell, including internal resistance, voltage and temperature
- Software is available to collect data from CELLCHECK
- Serial port with Optical isolation, meet MODBUS protocol, easy to be accessed by UPS controller
- Easy to install without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



Overview

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



Features

- Full resistance, 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 base 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, capacity less than 2000AH

Power Requirements

CELLCHECK : powered from the battery , less than 60mA(2V) or 25mA(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 , $\pm(0.1\%+10\text{mV})$

Internal resistance : 100 ~ 65535 $\mu\Omega$

Battery temperature : $5^{\circ}\text{C} \sim 50^{\circ}\text{C}$, $\pm 1.5^{\circ}\text{C}$

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

CELLCHECK : 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

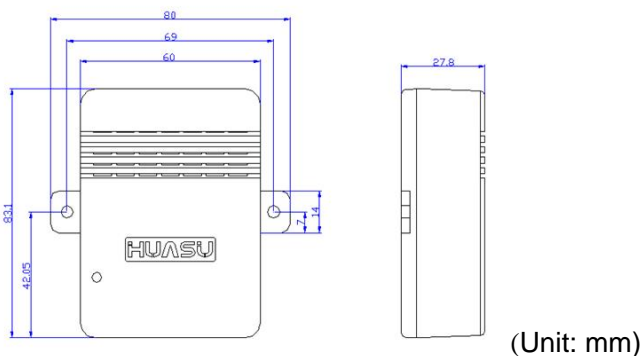
Installation

Paste on battery or rail mounting

Weight

CELLCHECK: 115g TC module: 260g
 CM module: 1.8Kg

Dimensions



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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