CELLCHECK™ Intelligent Battery Monitor
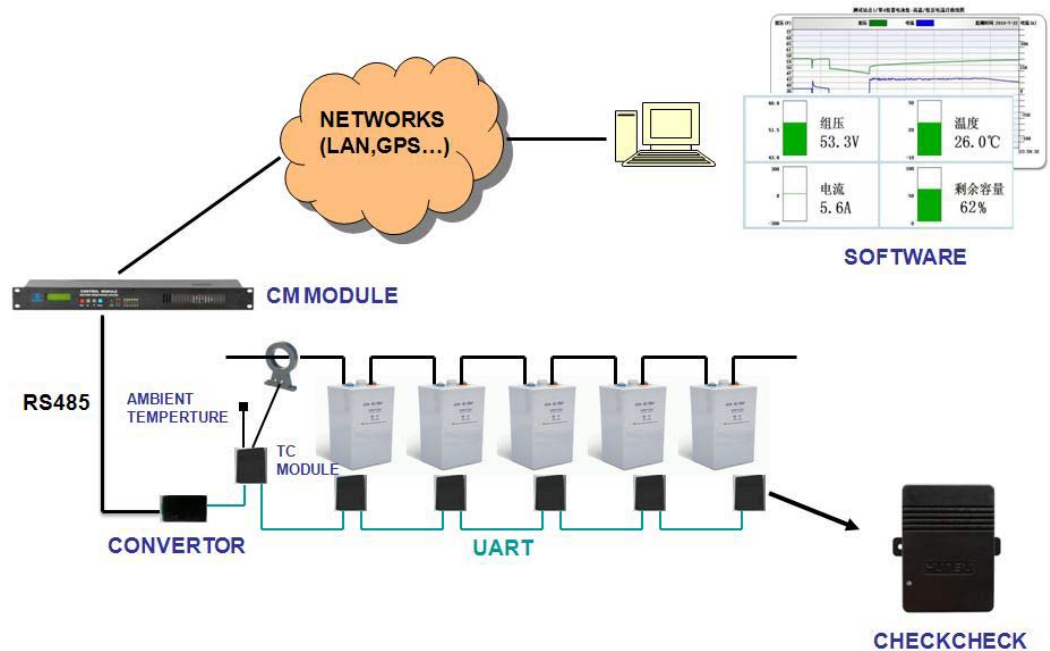## Internal Resistance, Voltage and Temperature Measurements

- 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 the batteries that need replacement or maintenance (need CM module)

- With a big storage space to save history data

- •LED on panel flashes 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□ ～ 50□ ,5% ～ 90％RH
Storage temperature: -10□ ～ 70□ ,5% ～ 90％RH

Used for
2V、6V or 12V battery, capacity from 30AH to 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 ～ 600V ，±(0.5%+0.2V)
Cell voltage ：1.5 ～ 2.5V ，±(0.1%+1mV)
　　　　　　　9 ～ 15V ，±(0.1%+10mV)
Internal resistance ：100 ～ 65535uΩ
Battery temperature ：5℃ ～ 50℃, ±1.5℃
Ambient temperature: -10℃ ～ +70℃ ，±0.5℃

String current ：0 ～ 300A(optional),
　　　　　　　 ±(2%+0.5A)

Communications Interfaces
CELLCHECK ：serial port, meet MODBUS protocol, support 200 devices on each bus
TC module ：serial port, meet MODBUS protocol
Convertor: serial port, meet MODBUS protocol
CM module ：RS232, RS485, Ethernet 10/100 Mbps, meet MODBUS protocol

Insulation
2000VAC

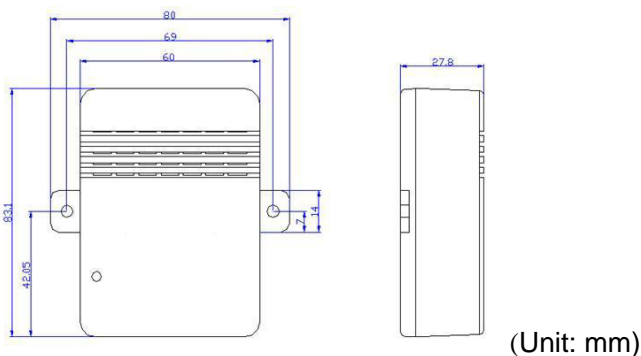### Installation
Paste on battery or rail mounting

Weight
CELLCHECK: 115g　　　TC module: 260g
Convertor: 40g　　　　　CM module: 2.5Kg

Dimensions

(Unit: mm)

Options

1. TC module
   Measure string current and ambient temperature
2. CM module
   Manage up to 4 strings and 200 cells each string
3. Current sensor
   Measure string current with TC module
4. Software
   It can be installed on PC and read and display data from CM module

Applications

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

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