

### Energom-101

110V/220V Battery  
Online Monitor



#### Description

Energom-101 online monitoring system consists with battery cell acquisition module and monitoring host device. It provide real-time string voltage, charge / discharge status detect, export current, cell current & voltage, internal resistance etc. It also provide automatic balance function of battery cell, to keep the voltage at a reasonable float charging range, prolong the service life of the battery.

Comm port allow build remote monitor system, provide reliable and effective management method for the battery bank management, reduce risk of power interruption caused by power failure.

#### Main Features

- Independent sampling channel, fuse to protect battery safety.
- Cell monitoring module equipped external temperature sensor.
- Automatically switch three working modes: Equalization operations , Internal resistance test, Voltage and temperature monitoring.
- Automatic determine battery opened loop or offline status.
- Detect and display charge and discharge capacity of the battery bank.
- Alarm record with time stamp for battery unexpect status, minimum 1min record interval for all battery cell.
  - 4.0 inch TFT screen.
  - USB interface for export record data.
  - Provide Visual & sound alarm notice, with DO passive node for connect other device.
  - Ethernet interface, RS232 and RS485 interfaces for build SCADA.

#### Technical characteristics

##### Battery bank monitoring

Voltage	0~999.99V
Accuracy	0.10%
Current	0~999.99A
Accuracy	±0.5% for Shunt, ±1% for Hall CT

##### Battery cell monitoring

Cell voltage	0~20.000V
Accuracy	0.1% @ ±30% rated voltage
Cell internal resistance	0~65535uOhm
Accuracy	5%
Cell temperature	0-99.9°C
Accuracy	±0.5°C
Call capacity display	9999.9AH @ 1Sec detect interval

##### Others

Float charging equalization	10mV 240cells
Battery cell qty	2V, 4V, 6V, 12V
Cell rated voltage	1000lists
System info record	240lists
Alarm info display	1000lists
Alarm info record	AC220V & DC110/220V
Working voltage	RS485 / RS232 / Ethernet opional
Communication interface	