

## Battery monitoring system

# AMPERIS-3926




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AMPERIS 3926C could be used individually to reflect battery status or used together with AMPERIS's other battery test equipment's like battery charger and DC load bank. For different battery systems, it has customized configuration from 12V to 480V or upper. And it has easy expansion for all UPS systems

amperis

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## Features:

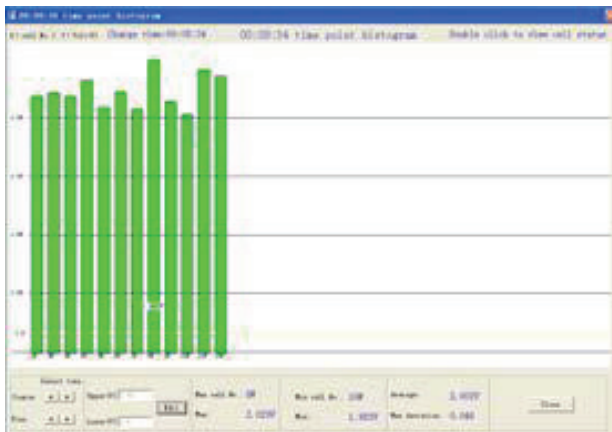
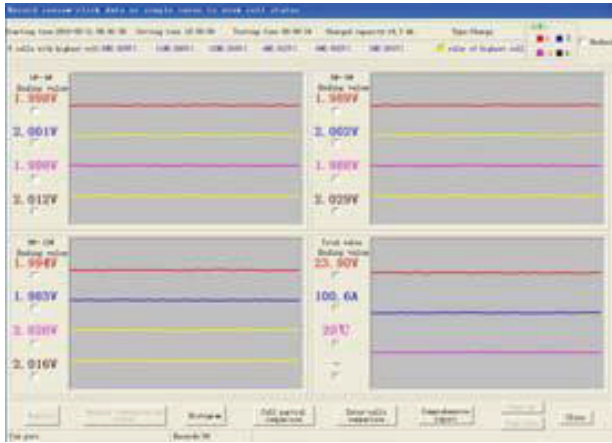
- Small weight modular design and very easy to install and operate
- It tests all battery types of 1.2V, 2V, 6V and 12V
- Simple wireless communication between batteries and PC software
- Simultaneously monitor cell voltage, string voltage, current & temperature
- Data auto saving in PC, no need for data transfer
- Work with battery charger or load bank to reflect battery status
- One cell DAC is connected with multiple batteries, save your time and money
- Could be used as temporary voltage monitoring or as permanent battery monitor<sup>1</sup>
- Direct powered by battery, no need for extra power supply
- Sampling rate is customer programmed for real time monitor and report Generation



| Technical Specificación |   |                                  |
|-------------------------|---|----------------------------------|
| Item                    | Testing range   | Accuracy                         |
| Cell voltage            | 0~16V   | ±0.5%                            |
| String voltage          | 0~480V(customized)  | ±0.5%                            |
| Current testing         | 0~1000A (customized CT)                                   | ±1%                              |
| Temperature measurement | -25~55°C  | ±1°C                             |
| Power supply            | Cell DAC  | DC12V±15% (Supplied by battery)  |
|                         | String DAC  | DC12V±15% (Supplied by battery)  |
|                         | Wireless communication                                    | DC5V±5% (Supplied by PC via USB) |
| Monitoring software     | AMPERIS PC software with data management function         |                                  |
| Communication           | FSK   |                                  |
| Communication distance  | 100m (not blocked)  |                                  |
| Communication frequency | 433MHz  |                                  |
| Weight                  | 0.15 kg/per modular                                       |                                  |
| Size                    | 121×113×40 mm   |                                  |
| Warning for             | Communication disconnection, Over voltage and Low voltage |                                  |
| Working environment     | Temperature: 0~55°C Relative humidity: ≤85%RH             |                                  |
| Data sampling interval  | 0.1 second/point  |                                  |
| Safety standard         | CE marking  |                                  |

1.All above standard units also include 1 string DAC, 1 communication terminal, 1RS232-USB converter and AMPERIS 3926 Data View software.

2. All standard units are for measurement cell type of 2V, 6V and 12V. Measurement of 1.2V batteries is optional. AMPERIS also offer specific Cell DAC for measurement 12V only. One of such DAC can hook up with 12 cells of 12V.



## AMPERIS 3926 SOFTWARE

## Composition

### Cell DAC

It monitors voltage of each cell. For different battery system, depending on different battery systems, each AMPERIS 3926 model will require different amount of Cell DACs.

### String DAC

It monitors string voltage, string current and ambient temperature. Each String DAC will come with a customized current sensor for testing string current. Each AMPERIS 3926 Data Logger will only need ONE String DAC.

### Communication terminal

Connected with PC to collect data from Cell DACs and String DAC

## Order information

| Model   | For Battery System | Amount of Cell DAC |
|---------|--------------------|--------------------|
| DL48    | 48V                | with 2 Cell DACs   |
| DL110   | 110V               | with 5 Cell DACs   |
| DL110-1 | 110V               | with 8 Cell DACs   |
| DL220   | 220V               | with 10 Cell DACs  |
| DL220-1 | 220V               | with 16 Cell DACs  |
| DL380   | 380V               | with 16 Cell DACs  |
| DL380-1 | 380V               | with 3 Cell DACs   |

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