RePower 瑞能

Portable Cell Charge-Discharge Maintenance Device

Application

High-precision maintenance and testing tool for single lithium-ion cells. With a high-precision power supply, it provides high-efficiency CC-CV charging and discharging. It quickly corrects over/under-voltage cells in modules without cross-cell voltage limits, realizing cell-level balancing. It also supports accurate capacity calibration for cell replacement, performance testing and battery grouping.

Test Functionality

- CC-CV Charging
- CC-CV Discharging
- Cell Balancing
- Capacity Calibration

Advantages and Features

Integrated Charge & Discharge

Integrates charging and discharging functions. A single unit fulfills all test and maintenance tasks for battery packs.

Multiple Protection Mechanisms

Supports customizable multi-level protection thresholds. Automatically monitors and triggers protection during testing, enabling unattended automatic operation.

User-Friendly HMI

Compact and portable, with color LCD display for intuitive operation. Charging and discharging data can be viewed without a PC, enabling quick evaluation of cell status and quality.

Communication Expansion

Optional RS485 data interface for data uploading and remote control.

Product Parameters	
Product Name	Single Cell Charger-Discharger
Power Supply	90~264 Vac
Grid Frequency	48-62Hz
Detection Range	Single Cell 0-5V
Charging Voltage Setting	0-5V (Adjustable)
Charging Current Setting	0-60A (Adjustable)
Discharging Voltage Setting	0.5-5V
Discharging Current Setting	0-60A (Adjustable)
Operating Mode	Charging Mode / Discharging Mode
Charging Mode	Constant Current Constant Voltage
Discharging Mode	Constant Current Constant Voltage
Operating Temperature	-20~55°C
Cooling Method	Air Cooling

Note: For specific models and parameters, please refer to the corresponding technical specifications.

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