

Formation/Capacity Grading Equipment



20% ↑
Energy Saving

Standard Configuration

- Energy recovery power supply
- Knurled probe
- Automatic smoke exhaust and drainage system
- Fire sprinkler system
- Vacuuming system
- Automatic calibration tooling
- Smoke temperature detection system
- Production control system

Optional Configuration

- Compression tray
- Water-air integrated spray system
- High-temperature thermostatic cabinet
- Other tooling: vacuum detection tooling, temperature calibration tooling, nozzle removing and installing tooling etc
- Convenient knurling probe

Product Features

- Energy recovery function, energy saving and environment-friendly
- Fast response and high detection accuracy
- Automatic fire protection, safe production
- Automatic smoke exhaust and drainage system, low pollution
- Real-time adjustable compensation of negative pressure, stable and accurate negative pressure control
- High accuracy temperature acquisition, constant temperature control system, good temperature uniformity
- Automatic calibration design, long calibration cycle
- Abnormality real-time monitoring: contact impedance, polarity, temperature, smoke, voltage, current, etc.
- Compatible with various battery types and dimensions, easy to replace
- Modular design, convenient maintenance and non-stop maintenance
- Interaction with MES information, local data saving function

Power supply specification	Parallel power supply	Series power supply
Voltage specification	5V	120V/160V/240V/320V 480V/640V/720V
Current specification (customizable)	3A/6A/12A/30A/60A/120A 150A/200A/400A/500A	60A/120A/200A/250A
Number of channels	1	24/32/48/64/96/128/144
Current/voltage accuracy	±0.05% FS	
Channel features	<ul style="list-style-type: none"> • Single channel control/multi-channel control/complete machine control • Energy recovery type, energy saving and environment friendly 	<ul style="list-style-type: none"> • Adopt composite series charging and discharging technology. The discharged energy can be fed back to the power grid, and can be used in the DCDC internal network. Compared with the conventional feed-back equipment, the energy saving ≥ 20% • DC micro-grid bus system, high charging and discharging efficiency of the whole equipment • With CV charging and discharging mode, single channel switching function
Charge-discharge voltage range	0mV-5000mV	
Charging mode	CC charging, CV charging	
Maximum charging efficiency of power module	≥80%	≥85%
Charging cut-off conditions	Voltage, current, time, capacity, temperature, voltage difference, etc	
Discharging mode	CC discharging, CV discharging	
Discharge cut-off conditions	Voltage, current, time, capacity, temperature	
Maximum feedback efficiency of the system	≥70%	≥80%
Current response time	≤20ms	≤40ms
Data recording time	>1S	
Editable work steps	256	
Power factor	>0.98 (full load)	
Protection function	Power-off data protection, power-off pause continuation, over-charge and over-discharge protection, over-current and under-current protection, capacity protection, over-temperature protection, current fluctuation abnormal protection, charging voltage rise abnormal protection, discharge voltage drop abnormal protection, island effect protection, power module over-high temperature protection, battery reverse connection, poor crimping contact detection, etc.	