



# Li-ion Battery Testing Solutions





# KPM Li Ion Battery Test System (KPM LI-4X100 Series )

## KPM – LI 4 X 100A Lithium Battery 4-Channel Discharge Charge Unit

### OVERVIEW

LI 4 X 100A integrates discharge, charging and activation functions in one unit with a wider range of current, and can solve various test and maintenance tasks. It can simulate a variety of actual loading operating modes of the battery pack to test the battery performance more comprehensively.



### APPLICATION

After-sales, large-capacity lithium battery capacity test, especially suitable for rapid maintenance of forklift lithium batteries.

### FEATURE

- 4 independent charging and discharging tests, voltage measurement range DC 0-5V, current 0-100A continuously adjustable
- Combined test mode, the current can reach up to 400A
- Large-capacity data storage, can automatically generate data reports
- Integrates discharge, charging and activation functions in one unit, it can solve various test and maintenance tasks
- Multiple shutdown thresholds can be set. the tester will automatically stop the test to avoid overcharging and overdischarging of the battery and to ensure the safety of the battery and the device itself
- 7-inch LCD screen: large LCD touch screen displays test data and charts in real time, supports touch operation, and the user-friendly input method and menu design simplifies the operation process
- Intelligent Ports: Configure RS485, RJ45, CAN and other data ports, support lithium battery BMS, upper computer, and other intelligent devices for communication

### SPECIFICATION

Model	KPM – LI 4 X 100A
Application	Lithium Battery Industry, Battery Manufacturer, Automobile Assembly Plant
Discharge Voltage	4 channel, independent, 1-5.000V
Discharge Current	4 channel, independent, 1.0-100A
Charging Current	4 channel, independent, 1.0-100A
Power Supply	AC220V
Working Mode	discharge, charging, discharge-charge cycle (activation)
Cell Voltage Accuracy	accuracy: $\pm 0.2\%FS+5mV$ , resolution: 0.001V
Current Accuracy	accuracy $\pm 0.5\%FS+0.2A$ , resolution: 0.1A
Dimension	512*296*340mm
Weight	25kg





# KPM Li Ion Battery Test System (KPM CCD Series )

## KPM CCD series Lithium Battery Equalization Tester

Discharge-Charge Equalization

### OVERVIEW

KPM CCD Sr. tester is an intelligent and efficient lithium battery equalization maintenance instrument, which is used to quickly solve the problem of inconsistent voltage of lithium battery pack. Meanwhile it supports making the voltage difference of any battery, which can be used for research and development experiments to simulate what problems will occur when the battery reaches the maximum voltage difference under harsh working conditions. It is suitable for various types of lithium battery packs and is the best tester for battery manufacturers and distributors.

### APPLICATION

Battery Manufacturers: after-sales, warehousing, TVC testing, QA and other battery testing  
Automobile Assembly Plants: battery maintenance  
4S Dealership: after-sales maintenance



### FEATURE

- Intelligent Test: it can detect and equalized charging or discharge the cell in the battery pack. When charging or discharging the battery pack, it can be ensured that each cell will not be overcharged or overdischarged.
- Presetting Function: provides equalization test parameter preset function, simplify the operation and speed up the test.
- Voltage Clamp: constant voltage and reduces current, ensure that the voltage of the cells in the battery pack is infinitely close to the target threshold during the test
- Multiple Protections: supports voltage and cell temperature information monitoring, and provide multiple test shutdown thresholds to avoid battery overcharge and overdischarge
- 7 inch LCD Touch Screen: for easy operation and showing various parameters real time

### SPECIFICATION

Model	CCD-1255	CCD-2455	CCD-3655	CCD-4855
Test Port	1*12	2*12	3*12	4*12
Charge & Discharge Power	max 300W	max 600W	max 900W	max 1200W
Voltage Range & Accuracy	1.8-4.2V @±0.1%FS±2mV			
Current Range & Accuracy	0.1-5A @±1%FS±0.05A			
Temp Range & Accuracy	-25 ~ 85°C@±2°C			
Battery Port	16pin/24pin	16pin/24pin	17pin/26pin	26pin/26pin
Display	7 inch touch screen			
PC Data Communication	TCP/IP, USB			
Wireless Communication	WIFI, BT (WIFI antenna external)			
Charge Mode	constant current charging + constant voltage charging			
Discharge Mode	constant current discharge (constant power discharge and constant resistance discharge are optional)			
Dimension	455*255*220mm/8.5kg	496*246*262mm/14kg	480*255*430mm/18kg	480*255*590mm/29kg





# KPM Li Ion Battery Test System (KPM MDH Series )

## KPM MDH Series

### High Voltage Lithium Battery Discharger

#### OVERVIEW

**KPM MDH** High-Voltage Lithium Battery Discharger is designed for the rapid discharge requirements of high-voltage lithium battery packs, the discharge voltage can reach 800V. It is equipped with a CAN data bus, which can read battery cell data during discharge. It is an ideal device for battery manufacturers and automobile assembly plants to quickly discharge battery packs during storage, transportation, repair and battery recycling.

#### APPLICATION

Battery Manufacturers & Automobile Assembly Plants: storage, transportation, repairs and battery recycling



#### FEATURE

- High-Voltage Discharge: the max discharge voltage can reach 800V, meeting the discharge requirements of various high-voltage lithium battery packs
- Cell Data Collection: with CAN data bus, cell data can be read during discharge
- Multiple Protections: supports protection of over-discharge, over-temperature, overcurrent, polarity reversal

#### SPECIFICATION

Model	KPM MDH Series
Discharge Voltage Range	200-800V
Accuracy & Resolution	0.1V; $\pm 0.5\%FS$ , max 800V
Discharge Current Range	200-300V: 0-30A、300-400V: 0-45A、400-600V: 0-60A 600-800V: limit power to 36kW, voltage rise current reduced to 45A-60A
Accuracy & Resolution	0.1A; $\pm 1\%FS$ , max 60A
Max Discharge Power	36kw
Discharge Mode	constant current discharge, constant power discharge
Battery Port	7 pin
Display	7 inch touch screen
PC Data Communication	TCP/IP, USB
Dimension (mm)	293*506*773
Weight (kg)	45



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# KPM Li Ion Battery Test System (KPM 0530 Series )

## KPM LI 0530 Series

### Lithium Battery Discharge Charge Unit

#### OVERVIEW

**KPM 0530CT** can quickly and accurately maintain the cells with large voltage drops in the lithium battery module. During the test process, the cell voltage and current are monitored in real time, and the accumulated charge/discharge power is calculated, which is suitable for maintenance testing of various types of lithium batteries.



#### APPLICATION

Battery Manufacturers & Automobile Assembly Plants: warehousing and after-sales, single channel high current fast equalization of battery module

#### FEATURE

- Widely Applicable: suitable for maintenance testing of various types of lithium batteries such as lithium iron phosphate, ternary lithium and lithium titanate series
- Efficient Maintenance: the constant current charging and discharging mode is adopted, the maximum charging and discharging current can reach 30A, and the portable design improves maintenance efficiency
- Easy to carry: the tester is small in size, light in weight, and easy to carry
- Presetting Function: provides equalization test parameter preset function, simplify the operation and speed up the test.
- 3.5 inch LCD Touch Screen: for easy operation and showing various parameters real time
- Pause Function: supports manual pause during the test, and the test can be continued after adjusting the parameters, without the need to terminate the test
- Multiple Protections: provides multiple test shutdown thresholds to avoid battery overcharge and overdischarge

#### SPECIFICATION

Model	KPM 0530 Series
Working Voltage	AC100-264V @50Hz
Voltage Range	1.0-4.5V
Voltage Accuracy	±0.2%FS+5mV@5V
Discharge Current	1.0-30A ±0.5%FS+0.1A@30A
Charging Voltage	1.0-4.5V
Charging Current	1.0-30A ±0.5%FS+0.1A@30A
Display	3.5 inch LCD touch screen
Communication	RS485
Protection	DC input over voltage, polarity reversal, discharge over current, over temperature
Dimension (mm)	230*155*75
Weight (kg)	2





# KPM Li Ion Battery Test System (KPM MCD Series )

## KPM MCD Series

### Lithium Battery Discharge-Charge Unit

#### OVERVIEW

KPM MCD SR. tester adopts advanced charging and discharging technology with a variety of built-in test and maintenance modes, which are suitable for the discharge, charging and discharge-charge cycle tests of various lithium battery packs on the market.

#### APPLICATION

Battery Manufacturers: after-sales, warehousing, TVC testing, QA and other battery testing

Automobile Assembly Plants: battery maintenance

4S Dealership: after-sales maintenance in module charging, discharging and quick matching



#### FEATURE

- One Machine with Multifunction: wide range design suitable for battery packs' discharge, charge and activation test for different voltage levels
- Multi-Discharge Modes: high efficiency aerospace load materials and advanced control technology to ensure discharge accuracy
- High-Efficiency Charging: complete 3-stage charging mode to improve charging efficiency
- Battery Pack Activation: freely set charge and discharge rules, activation times, and effectively increase battery capacity
- Communication: CAN, RS485
- Wireless Cell Voltage Recording: wireless monitoring and acquisition technology is used to record each cell voltage
- Multiple Protections: supports protection of over-discharge, over-temperature, overcurrent, polarity reversal

#### SPECIFICATION

Model	KPM MCD-A200CT	KPM MCD-A300CT	KPM MCD-10030NT	KPM MCD-60030NT
Group Voltage Range	DC 2-285V	DC 2-285V	DC 2-100V	DC 200-600V
Accuracy & Resolution	±0.5%FS	±0.5%FS	±0.5%FS	±0.5%FS
Cell Voltage Range	0-5V	0-5V	0-5V	0-5V
Accuracy & Resolution	0.001V	0.001V	0.001V	0.001V
Discharge Current Range	0-100A/7.2KW	0-100A/7.2KW	0-30A/2KW	0-30A/18KW
Accuracy & Resolution	±1%FS	±1%FS	±1%FS	±1%FS
Charge Current Range	0-80A/4.4KW	0-80A/6.6KW	0-30A/2KW	0-20A/12KW
Accuracy & Resolution	±1%FS	±1%FS	±1%FS	±1%FS
AC Power Supply	AC220V	AC220V	AC220V	AC380V
Working Mode	discharge, charge, activation (discharge-charge cycle)			
Communication(PC)	RS485、CAN			
Protection	DC input over voltage, polarity reversal, discharge over current, over temperature			
Dimension (mm)	512*295*339	512*295*339	452*234*286	680*554*334
Weight (kg)	25	28	18	40





# KPM Li Ion Battery Test System (KPM MCD 2550)

## KPM MCD 2550

### Lithium Battery Discharge-Charge Unit

#### OVERVIEW

KPM MCD SR can discharge, charge, cyclic discharge and charge multi cells in the battery module with cells sampling display, ensuring cells not to be overcharged or over discharged. It is suitable for maintenance and testing for various types of lithium battery.

#### APPLICATION

Battery Manufacturers: storage, after-sales  
Automobile Assembly Plants: battery maintenance  
4S Dealership: discharge-charge and quick match of battery module in after-sales maintenance



#### FEATURE

- Multiple Modes: capability in discharging, charging and cycle discharging and charging multiple cells in the battery module
- Date Record: shows various data such as module voltage, cell voltage and current curves; data can be process to a report for easy judgement
- Multiple Protection: multiple thresholds are provided to avoid cell over charging and over discharging, ensuring battery and unit safety
- Smart: Full touch operation, intelligent prompt and judgment, suitable for on-site testing
- Multiple shutdown thresholds: to avoid overcharge and overdischarge in the test, safe and efficient testing
- Parameter Preset: discharge-charge parameters can be customized
- Portable Design: easy to carry and transport
- 7-inch LCD Touch Screen: for easy operation and showing testing data and tables in real time

#### SPECIFICATION

Model	KPM MCD 2550 Series
Working Voltage	AC 176-264V, 40 - 60Hz
Discharge Current Range	0.5A-50A; $\pm 0.5\%FS \pm 0.2A$
Discharge Voltage Range	2.5-25V; $\pm 0.25\%FS \pm 5mV$ ; 0.01V adjustable
Charge Current Range	0.5A-50A; $\pm 1\%FS \pm 0.2A$
Charge Voltage Range	2.5-25V; $\pm 0.25\%FS \pm 5mV$
Charging Mode	4-stage charging: constant current1, constant current2, constant voltage and limited current, floating charge customized according to actual needs
Working Mode	Multiple working modes optional (charge, discharge and cyclic charge and discharge)





## KPM Li Ion Battery Test System ( Air Leakage Tester )

### *KPM 80L – Air Leakage Tester ( for Battery Pack )*



KPM 80L air tightness tester is the latest high-precision non-destructive testing equipment developed by KPM . The equipment mainly uses compressed air as the medium to apply a certain pressure to the inner cavity or surface of the product to be tested, and then uses a high-sensitivity sensor to detect changes in pressure to determine the tightness of the product to be tested. It has the characteristics of no pollution, fast and accurate testing, etc., which effectively improves the testing efficiency and product quality of customers in the new energy industry.

#### Functional Characteristics

- High Sensitivity: High-sensitivity pressure sensing, greatly improving test accuracy and stability
- Large-screen display: 7-inch large-screen touch display, the test process and data are clear at a glance
- Support scan code gun: support scan code gun access, directly scan code to display the serial number of the unit to be tested
- Process visualization: the test process can display the progress time of each stage
- Dual display of pressure value: with real-time display of pressure dial and display of process pressure curve
- Parameter management: The test parameters of standard parts can be preset, and they can be called directly, which is convenient and fast
- Parameter setting: parameters such as workpiece number, volume, pressure, time of each stage, leakage limit, etc. can be preset.
- Automatic screenshots of results: automatic screenshots are saved after the test is completed, and can be exported to U disk, eliminating the need for the camera to take pictures.
- Intelligent alarm: sound and light alarm will be issued when the test is abnormal or failed, and it is safe and worry-free
- Remote management: support remote submission of test data to the platform and remote program upgrades







KPM ENGINEERING SOLUTIONS PVT. LTD.  
815 A, 8th Floor, Unitech Arcadia, Sec 49,  
Gurugram – 122018 ,Haryana  
Website : [www.kpmpetek.com](http://www.kpmpetek.com)  
Email : [info@kpmpetek.com](mailto:info@kpmpetek.com)  
Phone No : +91 124 4001088

Bangalore : [blr@kpmpetek.com](mailto:blr@kpmpetek.com)  
Phone No : +91 8050055500