



RENNOVA HIGH CAPACITY EV BATTERY PACK TESTERS AND CHARGE-DISCHARGE CYCLERS

High Capacity EV (Electric Vehicle) Battery Pack Testers and Charge-Discharge Cyclers (CDC) are specialized equipment used in the testing and evaluation of electric vehicle battery packs.

With the increasing adoption of electric vehicles, battery pack testing is crucial to ensure the performance, safety, and reliability of the batteries used in these vehicles. High capacity EV battery pack testers and CDCs are designed to handle the high voltage and large capacity of electric vehicle battery packs.

EV battery pack testers are used to evaluate the overall performance characteristics of the battery pack. They typically measure parameters such as voltage, current, capacity, internal resistance, temperature, and more. These testers can simulate real-world driving conditions and perform various tests, including charge-discharge cycles, capacity tests, aging tests, thermal tests, and safety tests. They provide valuable data on the battery's performance, efficiency, and degradation over time.



Charge-discharge cyclers (CDCs), also known as battery cyclers, are specialized instruments used to perform repetitive charge-discharge cycles on battery packs. They allow precise control over the charging and discharging processes and can be programmed with specific charge-discharge profiles. CDCs are used to assess the battery pack's energy capacity, efficiency, cycle life, voltage profiles, and other performance parameters under different operating conditions. These tests help evaluate the battery's stability, degradation, and overall lifespan.

High capacity EV battery pack testers and CDCs are equipped with safety features to handle the high voltage and current levels associated with electric vehicle batteries. They provide precise control, accurate measurements, and advanced data analysis capabilities to evaluate the performance and health of the battery packs.



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Manufacturers, research institutions, and testing laboratories use these specialized tools to ensure that electric vehicle battery packs meet safety standards, regulatory requirements, and customer expectations. The data obtained from testing and cycling enables battery manufacturers and vehicle manufacturers to improve the design, performance, and longevity of electric vehicle batteries, ultimately enhancing the overall driving experience and promoting the adoption of electric vehicles.

Specifications and Features:

- As per requirements ATE will be customised
- This system can handle power up to 60KW and more
- Thermal runaway detection
- Cell level voltage and temperature validation
- BMS calibration
- Battery module assembly validation
- Battery wiring connection correctness validation
- Faster and error free testing
- Capable of handling high currents up to 1000 Amps and more
- CAN ready system for communicating with BMS
- Charge-Discharge Cyclus helps the manufacturer to meet AIS156 standards for EV battery packs
- Historical data store of test results
- Traceability of DUTs, report generation facility, label printing facility, FPY analysis options, etc., are provided for productivity analysis

