

ELECTRICAL AND CHARGING SAFETY TESTER

Application [7]

Electrical and charging safety tester can perform comprehensive and multi-dimensional analysis and testing on the powertrain of new energy vehicles, including charging function testing, battery pack capacity and range testing, battery pack aging testing, calendar life testing, battery consistency testing, capacity recovery function, SOC accuracy calibration, residual value evaluation, safety hazard analysis, etc., providing a basis and report for the health status of power batteries.

Advantages 🖫



- Accurate lithium plating and aging detection of battery packs, detection of battery cell leakage, etc.
- Detection of abnormal voltage, current and power during the charging process; rapid capacity/range assessment; SOC calibration, etc.
- Balanced consistency of the entire vehicle's battery cells; capacity/range recovery; improved overall lifespan, etc.





Function	Test item	Value of test
Power battery pack test	DC internal resistance test of battery system	Battery safety test
	Battery system range test	Battery mileage test
	Battery capacity retention test (SOH)	Battery life decay test
	Battery voltage consistency test	Battery consistency test
	Battery system temperature detection	Battery thermal protection test
Battery cell test	Extreme value of cell voltage	Battery consistency test
	Pressure differences of individual cells	Battery consistency test
	Extreme value of temperature of individual cells	Battery consistency test
	Temperature differences of individual cells	Battery consistency tes
	Lithium plating test of individual cells	Battery internal short circuit test
	Leakage test of individual cells	Battery internal short circuit test
	Test of electronic-electrochemical diffusion internal resistance of individual cells	Battery internal short circuit test
Battery management system test	Battery (SOC) estimation error test	SOC accuracy test
	Test of voltage and current measurement accuracy	BMS collection of abnormal data
Interface circuit test	Insulation performance test	Personal and vehicle safety inspection
	Adhesion test of vehicle contactors	Charging fault detection
	Test of temperature at vehicle charging port	Charging safety detection
Safety inspection	Charging socket insulation resistance	Charging socket insulation resistance
	Potential equalization	Potential equalization
Value-added functions	Individual cell consistency balancing service	Battery consistency recovery
	Battery system capacity recovery service	Improved range

Item	Specifications
Dimension (W*D*H)	600*800*2138mm
Weight	≤900KG