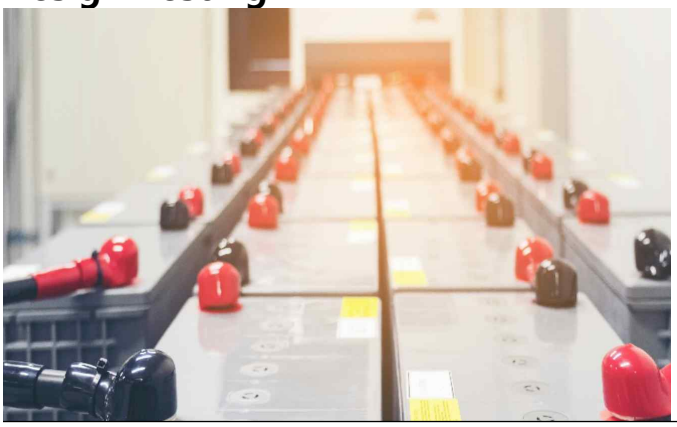
IKONIX USA

UL 2580 2nd Edition - Batteries for use in Electric Vehicles

Design Testing



Dielectric Voltage Withstand Test (Hipot test)
Requirement:
Test Voltage = DC potential of 1.414 times twice rated voltage. **AC potential of 60 Hz at twice rated voltage may be applied instead of the dc potential*
Test Time = 60 seconds

Pass Criteria:
There shall be no evidence of a dielectric breakdown

Continuity Test (Ground Bond Test)
Test Current Requirement = 150% of the maximum current of the circuit under test or 25 A
Test Time = 5 s seconds
No load voltage = ≤60 Vdc

Pass Criteria:
The grounding system shall have no more than 0.1 Ω resistance

Safety Compliance Analyzer to meet your Standard:

ASSOCIATED® RESEARCH AN IKONIX BRAND

HypotULTRA® Model 7804
AC / DC Hipot, 40A Ground Bond, Insulation Resistance, Ground Cont.

Production Testing

Dielectric Voltage Withstand Test (Hipot test)
Requirement:
Test Voltage = 2.4 times the rated voltage for AC test or 3.4 times the rated voltage for DC test
Test Time = 1 second

Continuity Test Requirement:
Simple continuity, resistance not exceeding 0.1 Ω

Safety Compliance Instrument to meet your Standard:

ASSOCIATED® RESEARCH AN IKONIX BRAND

Hypot® Model 3870
AC / DC Hipot, Insulation Resistance, Ground Cont.

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Safety Compliance Tester to meet your Standard:	Safety Compliance Tester to meet your Standard:
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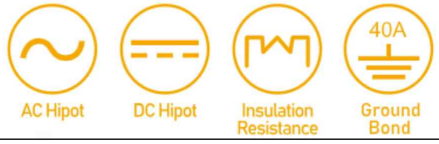
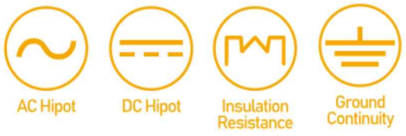
SCI 400 Series: Model 446 AC / DC Hipot, 40A Ground Bond, Insulation Resistance	**SCI 290 Series: Model 297** AC / DC Hipot, Insulation Resistance, Ground Cont.
	

Other common safety standards that require high voltage testing for battery packs and battery cell insulation:

IEC 62133-2:2017 - *Safety requirements for portable sealed secondary lithium cells, and for batteries made from them, for use in portable applications – Part 2: Lithium systems*

UL 2054 2nd Edition - *Household and Commercial Batteries*

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