



**Schedule of Scope to Certificate of Approval**  
**Independent Testing Laboratory**  
IECQ Certificate No.: IECQ-L ULTW 09.0004  
CB Certificate No.: 20003976 ITL

Schedule Number: IECQ-L ULTW 09.0004-S    Rev No.: 11    Revision Date: 2024/03/04    Page 1 of 4

**Appendix-1 (20003976 ITL)**  
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Description test	Standard
SHORT CIRCUIT TEST - AT ROOM TEMPERATURE	UL 2054
SHORT CIRCUIT TEST AT 55±5°C	UL 2054
ABNORMAL CHARGING TESTS	UL 2054
ABUSIVE OVERCHARGE TEST	UL 2054
FORCED DISCHARGE TEST	UL 2054
LIMITED POWER SOURCE TEST	UL 2054 / UL 60950-1 / EN 60950-1 / IEC 60950-1 / UL 62368-1 / EN 62368-1 / IEC 62368-1
BATTERY PACK COMPONENT TEMPERATURE TEST, BATTERY PACK SURFACE TEMPERATURE TEST	UL 2054
HEATING TEST	UL 60950-1 / EN 60950-1 / IEC 60950-1
EXCESSIVE DISCHARGING RATE FOR ANY BATTERY	UL 60950-1 / EN 60950-1 / IEC 60950-1
ENERGY HAZARD MEASUREMENTS	UL 60950-1 / EN 60950-1 / IEC 60950-1
REVERSE CHARGING OF RECHARGEABLE LI-ION BATTERY	UL 60950-1 / EN 60950-1 / IEC 60950-1
STEADY FORCE TESTS	UL 2054 / UL 60950-1 / EN 60950-1 / IEC 60950-1 / UL 62368-1 / EN 62368-1 / IEC 62368-1
MOLD STRESS RELIEF TEST	UL 2054 / UL 60950-1 / EN 60950-1 / IEC 60950-1
DROP IMPACT TEST	UL 2054 / UL 60950-1 / EN 60950-1 / IEC 60950-1
MAXIMUM OPERATING TEMPERATURE FOR MATERIALS, COMPONENTS AND SYSTEMS	UL 62368-1 / EN 62368-1 / IEC 62368-1
POWER MEASUREMENTS	UL 62368-1 / EN 62368-1 / IEC 62368-1
PROTECTION CIRCUITS FOR BATTERIES	UL 62368-1 / EN 62368-1 / IEC 62368-1
SECONDARY LITHIUM BATTERY CHARGING	UL 62368-1 / EN 62368-1 / IEC 62368-1

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**DQS-Group - DQS Taiwan Inc.**, Feng Yuan Dist., Taichung City, Taiwan





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Description test	Standard
SAFEGUARDS	
STRESS RELIEF TEST	UL 62368-1 / EN 62368-1 / IEC 62368-1
DROP TEST	UL 62368-1 / EN 62368-1 / IEC 62368-1
Discharge performance	IEC 61960-3 / EN 61960-3 / BS EN 61960-3
Endurance in cycle	IEC 61960-3 / EN 61960-3 / BS EN 61960-3
Drop test	IEC 62619
Propagation test	IEC 62619
Overcharge control of voltage (battery system)	IEC 62619
Overcharge control of current	IEC 62619
Overheating control (battery system)	IEC 62619
Discharge performance	IEC 62619
Overcharge Test	UL 1973 / UL 2271
High Rate Charge Test	UL 1973 / UL 2271
Short Circuit Test	UL 1973 / UL 2271
Imbalanced Charging Test	UL 1973 / UL 2271
Overload Under Discharge	UL 1973 / UL 2271
Over discharge Protection Test	UL 1973
Temperature and Operating Limits Check Test	UL 1973
Static Force Test	UL 1973
Impact Test	UL 1973
Drop Impact Test	UL 1973
Wall Mount Fixture/Handle Test	UL 1973
Mold Stress Test	UL 1973
Single Cell Failure Design Tolerance	UL 1973 / UL 2271
Resistance to Moisture Test	UL 1973
Salt Fog Test	UL 1973
Over discharge Test	UL 2271

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Description test	Standard
Temperature Test	UL 2271
Vibration Endurance Test	UL 2271
Shock Test	UL 2271
Drop Test	UL 2271
Mold Stress Relief Test	UL 2271
Handle Loading Test	UL 2271
Roll Over Test	UL 2271
Strain Relief Tests (Cord Anchorages)	UL 2271
Immersion Test	UL 2271
Water Exposure Test (IP X7 only)	UL 2271
Thermal Cycling Test	UL 2271
Label Permanence Test	UL 2271 / UL 2054
T1(Altitude Simulation)	UN 38.3
T2(Thermal Test)	UN 38.3
T3(Vibration)	UN 38.3
T4(Shock)	UN 38.3
T5(External Short Circuit)	UN 38.3
T7(Overcharge)	UN 38.3
Case stress at high ambient temperature (battery)	IEC 62133-2 / METI Ordinance Attached Table 12 JIS C 62133-2
Temperature Cycling	METI Ordinance Attached Table 12 JIS C 62133-2
External short circuit (battery)	IEC 62133-2 / METI Ordinance Attached Table 12 JIS C 62133-2
Free fall (battery)	IEC 62133-2 / METI Ordinance Attached Table 12 JIS C 62133-2
Over-charging of battery	IEC 62133-2 / METI Ordinance Attached Table 12 JIS C 62133-2
Mechanical test (battery) – Vibration	IEC 62133-2 / METI Ordinance Attached Table 12 JIS C 62133-2

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Description test	Standard
Mechanical tests (battery) – Shock	IEC 62133-2 / METI Ordinance Attached Table 12 JIS C 62133-2
Free fall of battery installed in the device (battery)	METI Ordinance Attached Table 12 JIS C 62133-2
Protection against overcharge (battery)	METI Ordinance Attached Table 12 JIS C 62133-2

Technical Reviewer of DQS: \_\_\_\_\_

Date: 03/04/2024

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