



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.: 3

Revision Date: 2022/05/17

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Appendix-1 (20003976 ITL)

Schedule of Scope to Certificate of Approval

Description test	Standard
SHORT CIRCUIT TEST - AT ROOM TEMPERATURE/ EXCESSIVE DISCHARGING RATE FOR ANY BATTERY	UL 2054/UL 60950-1/EN 60950-1 /IEC 60950-1
SHORT CIRCUIT TEST AT 55±5°C	UL 2054
ABNORMAL CHARGING TESTS	UL 2054
ABUSIVE OVERCHARGE TEST	UL 2054
FORCED DISCHARGE TEST	UL 2054
REVERSE CHARGING OF RECHARGEABLE LI-ION BATTERY	UL 60950-1/EN 60950-1/IEC 60950-1
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/ LITHIUM ION SYSTEM/ HEATING TEST	UL 2054/UL 60950-1/EN 60950-1 /IEC 60950-1
ENERGY HAZARD MEASUREMENTS	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/STRESS RELIEF TEST	UL 2054/UL 60950-1/EN 60950-1/IEC 60950-1 /UL 62368-1/EN 62368-1/IEC 62368-1
DROP IMPACT TEST/DROP TEST	UL 2054/UL 60950-1/EN 60950-1/IEC 60950-1 /UL 62368-1/EN 62368-1 /IEC 62368-1
MAXIMUM OPERATING TEMPERATURE FOR MATERIALS, COMPONENTS AND SYSTEMS	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
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 SAFEGUARDS	UL 62368-1/EN 62368-1/IEC 62368-1
7.3 Discharge performance	IEC 61960-3/EN 61960-3/BS EN 61960-3
7.6 Endurance in cycle	IEC 61960-3/EN 61960-3/BS EN 61960-3
7.2.3 Drop test	IEC 62619
7.3.3 Propagation test	IEC 62619
8.2.2 Overcharge control of voltage (battery system)	IEC 62619
8.2.3 Overcharge control of current	IEC 62619
8.2.4 Overheating control(battery system)	IEC 62619
7.3 Discharge performance	IEC 62619
8.2.2 Moulded case stress at high ambient temperature test	IEC 62133
8.3.2 External short circuit	IEC 62133
8.3.3 Free Fall	IEC 62133
8.3.6 Overcharge test	IEC 62133
7.2.2 Case stress at high ambient temperature test	IEC 62133-2
7.3.2 External short circuit (battery)	IEC 62133-2
7.3.3 Free Fall	IEC 62133-2
7.3.6 Over-charging of battery	IEC 62133-2
7.3.8.2 Mechanical shock	IEC 62133-2

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Overcharge Test	UL 1973 UL2271
Short Circuit Test	UL 1973 UL2271
Imbalanced Charging Test	UL 1973 UL2271
Overdischarge Protection Test	UL 1973
Temperature and Operating Limits Check Test	UL 1973
Static Force 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
Overdischarge Test	UL 2271
Temperature and Test	UL 2271

Technical Reviewer of DQS:

Michael Chou

Date: 5/17/2022

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