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Registergericht Amtsgericht
Freiburg im Breisgau
HRB 702395
Geschäftsführer: Adrian von Allmen

un_017_42

Dettingen, 28.11.2017

Test certificate

Used norm: UN Manual of Tests and Criteria ST/SG/AC.10/11/Rev.6/Corr.1
Section 38.3 "Lithium metal - und Lithium Ion-battery"

Tested battery: Power Battery Stack 1.9
Lithium iron phosphate (LiFePO₄)
60V...87V 1,92KWh 25Ah

Part No. Battery Pack: -

Manufacturer RCT Power GmbH

Used chapter of the norm: T.1 to T.5

Result: All test sample meet this requirement according
UN Manual of Tests and Criteria Section 38.3

(Labor management)

Test	Test abstract	Requirement	Result
T.1 Altitude simulation	Pressure of 11.6 kPa or less, 6h at ambient temperature $20^{\circ}\text{C} \pm 5^{\circ}\text{C}$.	No leakage, no venting, no disassembly, no rupture and no fire, OCV 90%.	Passed
T.2 Thermal test	10 times: ([6h at $75 \pm 2^{\circ}\text{C}$] & [6h at $-40 \pm 2^{\circ}\text{C}$])	No leakage, no venting, no disassembly, no rupture and no fire, OCV 90%.	Passed
T.3 Vibration	12 times: (7Hz to 200 Hz to 7Hz) In 15min, in x-/y-/z-direction 8g acceleration	No leakage, no venting, no disassembly, no rupture and no fire, OCV 90%.	Passed
T.4 Shock	3 x 150g-shock in x-/y-/z-direction pos. & neg. direction	No leakage, no venting, no disassembly, no rupture and no fire, OCV 90%.	Passed
T.5 External short circuit	Test sample heated 6h @ $57 \pm 4^{\circ}\text{C}$ short circuit @ $57 \pm 4^{\circ}\text{C}$ with external resistance ($< 0,1\text{Ohm}$) 1h after external case temperature. returned to $57 \pm 4^{\circ}\text{C}$	External temperature $< 170^{\circ}\text{C}$, no disassembly, no rupture and no fire during the test and 6h after.	Passed
T.6 Impact/Crush	--		
T.7 Overcharge	--		
T.8 Forced discharge	--		