

DYNAMIS

Batterien

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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

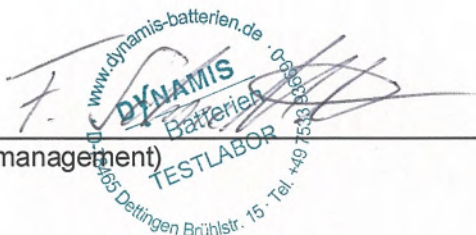
Part No. Battery Pack: -

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)



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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	--		

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