

DYNAMIS

Batterien

DYNAMIS Batterien GmbH Brühlstr. 15 78465 Dettingen/KN

RCT Power GmbH
Line-Eid Straße 1

78457 Konstanz

DYNAMIS Batterien GmbH
Brühlstraße 15
D-78465 Dettingen/Konstanz
Fon 07533/93669-0
Fax 07533/93669-91
info@dynamis-batterien.de
www.dynamis-batterien.de

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

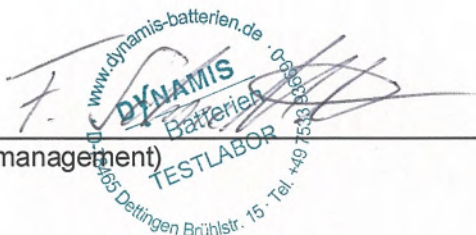
Part No. Battery Pack: -

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)



[Page 1 of 2]

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	--		

batterien.de · 05333/93669-0
 115
 .erien
 LABOR
 h/str. 15 · Tel: +49 7533