

Clayton Power ApS

UN 38.3 Test report



Product Name: 014-01004GF

Battery Specification: 12 V - 100Ah Li-Ion (WB-LYP100AHA – Yellow Cells)

Battery Specification: 12 V - 100Ah Li-Ion (SP-LFP100AHA – Black Cells)

Battery Chemistry: LiFeYPO4

Tested by: Gunleiv D Poulsen

Reviewed by: Mads Nielsen

Unit Name	014-01004GF 12V 100Ah Li-Ion Battery
Applicant	Clayton Power ApS
Manufacturer	Clayton Power ApS
Test Method	United Nations recommendations on the transport of Dangerous Goods UN 38.8
Test Date	5/2017
Test Items	Altitude Simulation (T.1), Thermal Test (T.2), Vibration (T.3), Shock (T.4), External Short Circuit (T.5) and Overcharge (T.7)
External Partner	DEKRA Certification B.V., Holland
Test Equipment	Altitude chamber (SN: OT2013004) Temperature chamber (SN: OT2013001) Temperature chamber (SN: OT2013002) Power Supply Metrix mps-3010L-2 (SN: P2013001) Multimeter Tenma 82-7732A (SN: M2013003)
Test Conclusion	All tests are passed

List of serial numbers of batteries used in the test (YellowCells)

Battery No.	Serial Number	Mass (Full assembled) kg	Mass (top cover and controlboard not mounted) kg
1	200105-1130	26,90 kg	24,30 kg
2	200105-1069	26,92 kg	24,32 kg
3	200105-1131	26,94 kg	24,34 kg
4	200105-1365	26,94 kg	24,34 kg

List of serial numbers of batteries used in the test (BlackCells)

Battery No.	Serial Number	Mass (Full assembled) kg	Mass (top cover and controlboard not mounted) kg
1	200102-0616	27,62 kg	24,74 kg
2	200100-0036	27,68 kg	24,92 kg
3	200100-0072	27,72 kg	24,86 kg
4	200101-0578	27,74 kg	24,88 kg

Test No	Test Function	Pass Criteria	Test Result	Conclusion	Remark ⁽¹⁾
T.1	Altitude simulation	UN 38.8 (5 th ed.)	See table 1	Passed	Ok
T.2	Thermal test		See table 2	Passed	Ok
T.3	Vibration test		See table 3	Passed	Ok
T.4	Shock test		See table 4	Passed	Ok
T.5	External short circuit		See table 5	Passed	Ok
T.7	Overcharge		See table 6	Passed	Ok

⁽¹⁾ L = Leakage, V = Venting, D = Disassembly, R = Rupture, F = Fire, Ok = No remarks

Test performed at:

Clayton Power Aps
Pakhusgården 42
5000 Odense C
Denmark


Test Start Date:

01-03-2017

Test End Date:

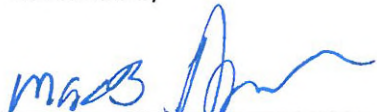
28-04-2017

Test Engineer:



Gunleiv D. Poulsen

Reviewed By



Mads Nielsen