

UN38.3 Test Report Summary

Name: Lithium Iron Phosphate Battery

Model: LT12-50

Watt Hours: 640

Un certification 3480

Date of Test: 12/6/23

Testing Laboratory: ATS Electronics

Report Number: ATSU240104311



Description:

Product Name	LiFePO4 Battery
Model/Type	12V 50Ah 12.8V, 50Ah, 640Wh
Notes:	LiFePO4, Model 12.8V, 50ah, 640Wh, consists of 4S-13P Cells, Model ITR26/70-40E

Mass:	5190g
-------	-------

Testing Facility:

ATS Electronic Technology Co. Ltd.

3/F, of Building A, 1/F of Building B & 1/F, of Building C, No.1, Hedong 3rd Road, Jinxia Community, Chang'an, Dongguan, Guangdong, China

+86-769-38975958 | www.dgats.com

Manufacturer:

Strident Innovations, 50 Turbine Way, Swaffham, Norfolk, PE37 7XD

+44 (0)1362 300102 | sales@strident.uk.com | www.strident.uk.com

Andrew Birt—Head of Operations

TEST CONCLUSIONS

Clause	Name of test	Sample No.	Sample Condition	Conclusion	Notes
38.3.4.1	Test T.1 Altitude Simulation	ATSP2401043 AA-001-A-002	First cycle in fully charged states	Pass	/
		ATSP2401043 AA-003-A-004	After 25 cycles ending in fully charged states		
38.3.4.2	Test T.2 Thermal Test	ATSP2401043 AA-001-A-002	First cycle in fully charged states	Pass	/
		ATSP2401043 AA-003-A-004	After 25 cycles ending in fully charged states		
38.3.4.3	Test T.3 Vibration	ATSP2401043 AA-001-A-002	First cycle in fully charged states	Pass	/
		ATSP2401043 AA-003-A-004	After 25 cycles ending in fully charged states		
38.3.4.4	Test T.4 Shock	ATSP2401043 AA-001-A-002	First cycle in fully charged states	Pass	/
		ATSP2401043 AA-003-A-004	After 25 cycles ending in fully charged states		
38.3.4.5	Test T.5 External Short Circuit	ATSP2401043 AA-001-A-002	First cycle in fully charged states	Pass	/
		ATSP2401043 AA-003-A-004	After 25 cycles ending in fully charged states		
38.3.4.6	Test T.6 Impact/Crush	ATSP2401043 AA-009-A-013	First cycle at 50% of the design rated capacity	Pass	26.3mm/ Cylindrical cell is 26.3mm in diameter.
		ATSP2401043 AA-014-A-018	After 25 cycles ending at 50% of the design rated capacity		

CONCLUSION:

The sample has passed the items of UN 'Manual of Tests and Criteria'

ST/SG/AC.10/11/Rev.7/Amend1/Subsection 38.3

Manufacturer:

Strident Innovations, 50 Turbine Way, Swaffham, Norfolk, PE37 7XD

+44 (0)1362 300102 | sales@strident.uk.com | www.strident.uk.com

Andrew Birt—Head of Operations

Testing Facility:

ATS Electronic Technology Co. Ltd.

3/F, of Building A, 1/F of Building B & 1/F, of Building C, No.1, Hedong 3rd Road, Jinxia Community, Chang'an, Dongguan, Guangdong, China

+86-769-38975958 | www.dgats.com