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Certificate of Compliance UN38.3

Date: February 17th 2020

Version: 2.1

Lithium cell or battery test summary in accordance with section 2.9.4 UN Model Regulations and sub-section 38.3 of Manual of Tests and Criteria, Part III, sub-section 38.3.5.

DC-AFAM's Lithium-ion ($LiFePO_4$) start batteries distributed under the SHIDO brand have been successfully tested and comply with the above-mentioned regulations.

Summary of Testing: Test performed (name of test and test clause)		
Test 1: Altitude Simulation	38.3.4.1	Passed
Test 2: Thermal test	38.3.4.2	Passed
Test 3: Vibration	38.3.4.3	Passed
Test 4: Shock	38.3.4.4	Passed
Test 5: External short circuit	38.3.4.5	Passed
Test 6: Crush	38.3.4.6	Passed
Test 7: Overcharge	38.3.4.7	Passed
Test 8: Forced discharge	38.3.4.8	Passed

UN 38.3 Tests were performed by one of the following testing agencies:

Pony Test Group Co. Ltd PONY HQ Building:Bldg1, Court 66, Jindai Road, Zhongguancun Environmental Protection Park, Haidian District, Beijing Service Hotline:0086 400 819 5688 http://www.ponytest.com/
Intertek Testing Services Shanghai Building No.86, 1198 Qinzhou Road (North), 200233 Shanghai, China Service Hotline: 0086 400 886 9926 https://www.intertek.com/
Shanghai Research Institute Of Chemical Industry Testing Center (CRICI) West entrance, No.345 East Yun Ling Road, Shanghai Service Hotline: 0086 021-52569800 http://www.ghs.cn/

DC AFAM NV
MOTORCYCLE PARTS

SHIDO®

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Non-exhaustive list of covered references:

Model Number	Physical description	Battery Mass (kg)	WH Rating	Test Report Number	Testing Agency	Test Report date
LB5L-B LION -S-	Motorcycle Start Battery	0,4	19,2	1116110208	CRICI	26.12.2016
LTX4L-BS LION -S-	Motorcycle Start Battery	0,4	19,2	1116110208	CRICI	26.12.2016
LTX5L-BS LION -S-	Motorcycle Start Battery	0,4	19,2	1116110208	CRICI	26.12.2016
LTM2L LION -S-	Motorcycle Start Battery	0,45	24	1116110208	CRICI	26.12.2016
LTKTM04L LION -S-	Motorcycle Start Battery	0,45	24	1116110208	CRICI	26.12.2016
LTZ5S CNT LI -S-	Motorcycle Start Battery	0,6	24	1116110208	CRICI	26.12.2016
LTZ5S LION -S-	Motorcycle Start Battery	0,5	24	1116110208	CRICI	26.12.2016
LTX7A-BS LION -S-	Motorcycle Start Battery	0,62	28,8	1116110208	CRICI	26.12.2016
LTX7L-BS LION -S-	Motorcycle Start Battery	0,55	28,8	1116110208	CRICI	26.12.2016
LTZ7S CNT LI -S-	Motorcycle Start Battery	0,55	28,8	1116110208	CRICI	26.12.2016
LTZ7S LION -S-	Motorcycle Start Battery	0,56	28,8	1116110208	CRICI	26.12.2016
LB9-B Q LION -S-	Motorcycle Start Battery	0,8	36	160700215SHA-001	INTERTEK	29.07.2016
LT7B-BS LION -S-	Motorcycle Start Battery	0,7	36	160700215SHA-001	INTERTEK	29.07.2016
LT9B-BS LION -S-	Motorcycle Start Battery	0,7	36	160700215SHA-001	INTERTEK	29.07.2016
LTX9 CNT LI -S-	Motorcycle Start Battery	0,79	36	160700215SHA-001	INTERTEK	29.07.2016
LTX9-BS LION -S-	Motorcycle Start Battery	0,92	36	160700215SHA-001	INTERTEK	29.07.2016
LT12A-BS LION -S-	Motorcycle Start Battery	0,8	42	160700215SHA-001	INTERTEK	29.07.2016
LB12AL-A2 Q LION -S-	Motorcycle Start Battery	0,9	48	1113070211	CRICI	30.08.2013
LTX12 CNT LI -S-	Motorcycle Start Battery	0,8	48	1113070211	CRICI	30.08.2013
LTX12-BS LION -S-	Motorcycle Start Battery	0,8	48	1113070211	CRICI	30.08.2013
LTX14 CNT LI -S-	Motorcycle Start Battery	0,87	48	1113070211	CRICI	30.08.2013
LTX14-BS LION -S-	Motorcycle Start Battery	0,83	48	1113070211	CRICI	30.08.2013
LTX14AHL-BS Q LI -S-	Motorcycle Start Battery	1	48	1113070211	CRICI	30.08.2013
LTX14L-BS LION -S-	Motorcycle Start Battery	0,9	48	1113070211	CRICI	30.08.2013
LTZ10S CNT LI -S-	Motorcycle Start Battery	0,87	48	1113070211	CRICI	30.08.2013
LTZ10S LION -S-	Motorcycle Start Battery	0,85	48	1113070211	CRICI	30.08.2013
LTZ8V LION -S-	Motorcycle Start Battery	0,88	54	1113070211	CRICI	30.08.2013
LB16AL-A2 LION -S-	Motorcycle Start Battery	1,1	60	160700215SHA-002	INTERTEK	29.07.2016
LT12B-BS LION -S-	Motorcycle Start Battery	1	60	160700215SHA-002	INTERTEK	29.07.2016

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Model Number (Continued)	Physical description	Battery Mass (kg)	WH Rating	Test Report Number	Testing Agency	Test Report date
LT14B-BS LION -S-	Motorcycle Start Battery	1	60	160700215SHA-002	INTERTEK	29.07.2016
LTZ12S CNT LI -S-	Motorcycle Start Battery	1	60	160700215SHA-002	INTERTEK	29.07.2016
LTZ12S LION -S-	Motorcycle Start Battery	0,95	60	160700215SHA-002	INTERTEK	29.07.2016
LTZ14S CNT LI -S-	Motorcycle Start Battery	1	60	160700215SHA-002	INTERTEK	29.07.2016
LTZ14S LION -S-	Motorcycle Start Battery	1	60	160700215SHA-002	INTERTEK	29.07.2016
LTPW16L LION -S-	Motorcycle Start Battery	1,2	72	160700215SHA-002	INTERTEK	29.07.2016
LTX16 CNT LI -S-	Motorcycle Start Battery	1,22	72	160700215SHA-002	INTERTEK	29.07.2016
LTX16-BS LION -S-	Motorcycle Start Battery	1,2	72	160700215SHA-002	INTERTEK	29.07.2016
LTX20CH-BS LION -S-	Motorcycle Start Battery	1,2	72	160700215SHA-002	INTERTEK	29.07.2016
LTX20 Q CNT LI -S-	Motorcycle Start Battery	1,45	84	E12282100321D	PONY	03.02.2012
LTX20L-BS Q LION -S-	Motorcycle Start Battery	1,4	84	E12282100321D	PONY	03.02.2012
LTX24HL-BS Q LI -S-	Motorcycle Start Battery	1,45	84	E12282100321D	PONY	03.02.2012
51913 LION -S-	Motorcycle Start Battery	1,7	90	E12282100321D	PONY	03.02.2012
LIX30 Q CNT LI -S-	Motorcycle Start Battery	1,92	96	E12282100321D	PONY	03.02.2012
LIX30L-BS Q LION -S-	Motorcycle Start Battery	1,9	96	E12282100321D	PONY	03.02.2012

The undersigned, on behalf of DC-AFAM, does hereby certify that the products listed in above table are compliant to: The testing requirements for Lithium batteries in section UN38.3.

We thank you in advance for your understanding and cooperation.

With our best regards,

DC-AFAM NV

Philippe Carlier, Managing Director