

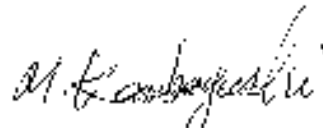


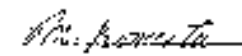
Date: September 08, 2009

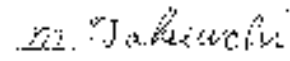
Sanyo Test Report

Name of Sample	Lithium Ion Battery 3UR18650-2-T0538
Consignor	STANDARD (Shanghai) Energy CO.,LTD
Manufacturer	STANDARD (Shanghai) Energy CO.,LTD
Test Method	United Nations "Recommendations on the TRANSPORT OF DANGEROUS GOODS"
Criterion	United Nations "Recommendations on the TRANSPORT OF DANGEROUS GOODS"
Appearance	Black rectangular parallelepiped
Test Date	2007/10/11 - 2007/10/25
Sample Number	24
Test Items	Altitude simulation, Thermal test, Vibration test, Shock test, External short circuit, Overcharged
Conclusion	The sample has passed the items of UN38.3.
Remark	Certification by Similar Model: 3UR18650A-2-FT-xx Ratio of (3UR18650-2-T0538)/(3UR18650A-2-FT-xx) [+]: 100%, [-]: 100%, [Electrolyte]=100% Same cells
Consignor Address	No.50.Rong-Teng Rd.,Songjiang Export Processing Zone,Shanghai,China, 201613

Sanyo Electric Co.,LTD
 Mobile Energy Company
 Battery System Development Management Department
 Technical Administration Department


 Approval


 Check


 Writing

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B: Checklist for Judging New Type Battery or not

Confirmation of presence of change in "The element which is given influence"

(Change ⇒ ○, No change ⇒ -)

When there is no change in all items, it is NOT considered to be a New Type Battery.

Model which regulation test has completed: 3UR18650A-2-FT-xx

Target model which is not a new type: 3UR18650-2-T0538

Test Item (Function)	The element which is given influence	Presence of change
T1: Altitude Simulation (Decompression load)	<ul style="list-style-type: none"> • Crimped part, Gasket (Cell) • Gas Release Vent, Cell Case (Cell) • Pack (Plastic) Case • Holding Member (Insulator, Insulation Tape, Both Sides Tape) • Coating materials 	-
T2: Thermal Shock (Repetition of high temp. and low temp.)	<ul style="list-style-type: none"> • Crimped part, Gasket (Cell) • Gas Release Vent, Cell Case (Cell) • Finished state of Wound Electrodes (Cell) • Pack (Plastic) Case • Holding Member (Insulator, Insulation Tape, Both Sides Tape) • Coating materials 	-
T3: Vibration (Vibration load)	<ul style="list-style-type: none"> • Finished state of Wound Electrodes (Cell) • Electric wiring member • Electronic Parts on a circuit board • Cell Holding Member (Adhesive, Both Sides Tape, Lib of Plastic Case) 	-
T4: Shock (Shock load)	<ul style="list-style-type: none"> • Wiring Member • Electronic Parts on a circuit board • Cell Holding Member (Adhesive, Both Sides Tape, Lib of Plastic Case) • Finished state of Wound Electrodes (Cell) 	-
T5: External Short Circuit (Short current)	<ul style="list-style-type: none"> • Over-voltage Protection • Current Control Device • Safety Device of cell (Cell) • Load Tab 	-
T6 (Cell): Impact (Crash load)	<ul style="list-style-type: none"> • Separator (Cell) • Insulation State in a cell (Cell) 	-
T7 (Pack): Overcharge (Charge load)	<ul style="list-style-type: none"> • Overcharge Protection • Thermal Device • Safety Device of cell (Cell) 	-
Judgment result	New Type or not	New <input checked="" type="radio"/> Not new <input type="radio"/>

Sanyo Electric Co., Ltd
 Mobile Energy Company
 Battery System Development Management Department
 Technical Administration Department

M. Kuroki
 approval

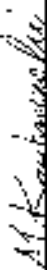
M. Furuta
 Check

M. Sakai
 Writing

Sep. 08, 2009

Certificate of UN test for Lithium ion battery

Customer Model : L09S6Y14
 Sanyo Model : 3UR18650-2-10538
 Sanyo Product Code : F164S1052

SANYO Electric Co., Ltd.
 Mobile Energy Company
 Battery System Development
 Management Department

 M. Karbayashi, Sales Manager
 Technical Administration Department

No.	Test Item	Test results	Note	Number of test batteries		
T 1	Altitude simulation	Pass		First cycle fully charged	After 50 cycles fully discharged	After 50 cycles fully discharged
T 2	Thermal test	Pass		4 batteries	4 batteries	4 batteries
T 3	Vibration	Pass		First cycle 50% charged 5 cells for original cell, 10 cells for primary cell, 5 cells for core cell.	After 50 cycles, fully discharged 5 cells for original cell, 10 cells for primary cell, 5 cells for core cell.	After 50 cycles, fully discharged 5 cells for original cell, 10 cells for primary cell, 5 cells for core cell.
T 4	Shock	Pass				
T 5	External short circuit	Pass				
T 6	Impact	Pass				
T 7	Overcharge	Pass	For battery only	First cycle fully charged 4 batteries	After 50 cycles, fully charged 4 batteries	After 50 cycles, fully charged 4 batteries
T 8	Forced discharge	-	For cell only	For cell only		

Lithium ion battery Specification

Item	Nominal value	Note
Watt-hour rating / Rated capacity	48 Wh / 4.5 Ah	
Nominal voltage	10.8 V	
Lithium equivalent content	4.05 g	

We declare the above : The test result mentioned above was checked according to UN test.
 (Manual of tests and Criteria ST/S6/AC 10/11/Rev. 4, Part III, sub-section 38.3)