

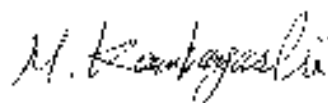


Date: September 16, 2009

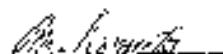
Sanyo Test Report

Name of Sample	Lithium Ion Battery 3UR18650-1-T0578
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	2008/06/16 2008/06/30
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: 3UR18650-1-T0138 Ratio of (3UR18650-1-T0578)/(3UR18650-1-T0138) [H]=100%, [I]=100%, [Electrolyte]=100% Same cell
Consignor Address	No.50,Rong-Teng Rd.,Songjiang Export Processing Zone,Shanghai,China, 201613

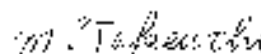
Sanyo Electric Co.,LTD
Mobile Energy Company
Battery System Development Management Department
Technical Administration Department



Approval



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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 → O, No change → -)

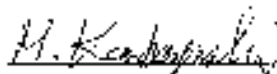
When there is no change in all items, it is NOT considered to be a New Type Battery.

Model which JIS regulation test has completed 3UR18650-1-T0138

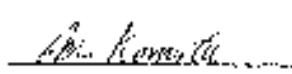
Target model which is not a new type 3UR18650-1-T0570

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, Lip 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, Lip 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) • Lead Tau 	-
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"/>

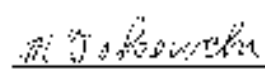
Sanyo Electric Co., LTD
 Mobile Energy Company
 Battery System Development Management Department
 Technical Administration Department



approval



Check



Writing

Certificate of UN test for Lithium ion battery

Customer Model : L09S3Z14
 Sanyo Model : 3UR18650-1-T0578
 Sanyo Product Code : F164S1059

SANYO Electric Co., Ltd.
 Mobile Energy Company
 Battery System Development
 Management Department
 At Kashiwanishi Building Manager
 Industrial Administration Department

No.	Test item	Test result	Note	Number of test batteries		
				First cycle fully charged 4 batteries	First cycle fully discharged 4 batteries	After 50 cycles fully discharged 4 batteries
1	Altitude simulation	Pass				
2	Thermal test	Pass				
3	Vibration	Pass				
4	Shock	Pass				
5	External short circuit	Pass				
6	Impact	Pass				
7	Overcharge	Pass				
8	Full cell discharge	Pass				

Lithium ion battery Specification

Item	Nominal value	Note
Watt-hour rating / Rated capacity	21 Wh / 2.25 Ah	
Nominal voltage	10.8 V	
Lithium equivalent content	2.03 g	

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