

Jan. 09. 2009

**Certificate of UN test for Lithium ion battery**

Customer Model : 42T5213  
 Sanyo Model : 3UR18650F-2-CPL-13  
 Sanyo Product Code : F164A0190

SANYO Electric Co., Ltd.  
 Mobile Energy Company  
 Battery System Development  
 Management Department  
  
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Manual of Tests and Criteria (38.3 Lithium batteries)		Test results	Note	Number of test batteries		
No.	Test item			First cycle	First cycle fully Discharged	After 50 cycles
T 1	Altitude simulation	Pass			After 50 cycles	
T 2	Thermal test	Pass			fully charged	
T 3	Vibration	Pass		4 batteries	4 batteries	
T 4	Shock	Pass			4 batteries	
T 5	External short circuit	Pass			After 50 cycles, fully discharged	
T 6	Impact	Pass		First cycle 50% charged 5 cells for cylindrical cell, 10 cells for prismatic cell, 5 cells for coin cell.	After 50 cycles, fully discharged 5 cells for cylindrical cell, 10 cells for prismatic cell, 5 cells for coin cell.	
T 7	Overcharge	Pass	For battery only	First cycle 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	52 Wh	

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