AP-4023Li BATTERY

1. Scope

This technical specification is for the product of AP-4023Li Li-ion rechargeable battery pack.

2. Cell Type

Cell: Sealed Li-ion cell 2pcs pack
Model: UF103450P
Size: 103450

3. Rating

Nominal Voltage: 7.4V per pack
Rated Capacity:
Typical Capacity: 2000mAh
Minimum Capacity: 1880mAh
Charging: charge with the constant current of 1880mA to 8.4V, then charge with 8.4V until the current approaching 38mA.
Discharge End Voltage: 5.5V per pack
Maximum Discharge: 3.76A Current
Weight: 120g
Charge Temperature: 0^{o}C to 40 ^{o}C
Discharge Temp: -20^{o}C to 60^{o}C
Storage Temperature: -20^{o}C to 50^{o}C

4. Physical Specification

Length: 91.5mm
Width: 60.6mm
Height: 21.0mm
Maximum Overstep: 0.1mm

5. Electrical Test

5.1 Charging Characteristics

The battery pack should be charged under the following conditions:

--At a constant current of 1880mA to 8.4V, then charge with 8.4V until the current approaching 38mA. (Quick Charge)

The above test is the ambient temperature of 20^{o}C (+,-5^{o}C)

5.2 Discharge Characteristics

After adopt the above charge procedure as 5.1 the battery pack is stored for 1 hour at the same temperature range, this is to be discharged at various current till the end voltage reaches 5.5V

--At 376mA discharge for 5hrs (0.2C)
--At 564mA discharge for 3.3hrs (0.3C)
--At 1880mA discharge for 54 minutes (1C)
--At 3.76 A discharge for 25 minutes (2C)

5.3 Capacity Characteristics

The battery pack should be at or more than 90% minimum capacity under the above either charging or discharging procedure.

5.4 Charge retention

After stand charging procedure as per 5.1, the battery pack store for 28 days, then discharge the battery pack are 0.2C, the nominal capacity shall not be less than 70%.
--Before using, the battery pack shall be properly charged as 5.1.
--Keep the battery pack in cool and dry place.
--DO NOT throw the battery pack into fire or disassembles them.
--DO NOT short-circuit the battery pack
--DO NOT charge with more than specified current.

WARNING: This battery pack should be charged by proper specified charger . After long storage, it is desirable to cycle (charge/discharge) the battery 3 times to restore full capacity.