

RMH0652 BATTERY

1. Scope

This technical specification is for the product of RMH0652 Ni-MH rechargeable battery pack.

2. Cell Type

Cell: Sealed Nickel Hydroxide Cylindrical Cell 4pcs pack

Model: AAA

Size: AAA

3. Rating

Nominal Voltage: 4.8V per pack

Nominal Capacity: 700mAh

Standard Charging: 70mA charge 16 hrs

Quick Charging: 210mA charge 4hrs

Discharge End Voltage: 4.0V per pack

Maximum Discharge: 1.4A Current

Weight: 50g

Charge Temperature: 0°C to 45 °C

Discharge Temp: -20°C to 60°C

Storage Temperature: -20°C to 55°C

4. Physical Specification

Length: 46.0mm

Width: 41.4mm

Height: 11.6mm

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 70mA for 16 hrs (Standard Charges)
- At a constant current of 210mA for 4hrs (Quick Charge)

The above tests are at the ambient temperature of 20°C (+,-5°C)

5.2 Discharge Characteristics

After adopting 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 currents till the end voltage reaches 4.0V

- At 140mA discharge for 5hrs (0.2C)
- At 210mA discharge for 3.3hrs (0.3C)
- At 700mA discharge for 54 minutes (1C)
- At 1.4 A discharge for 25minutes (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 standard charging procedure as per 5.1, the battery pack is stored for 28 days, then discharge the battery pack at 0.2C, the nominal capacity shall not be less than 60%.

- 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 disassemble 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.