

# **RMH0646 BATTERY**

## **1. Scope**

**This technical specification is for the product of RMH0646 Ni-MH rechargeable battery pack.**

## **2. Cell Type**

**Cell: Sealed Ni-MH Cylindrical Cell 10pcs pack  
Model: AA**

## **3. Rating**

**Nominal Voltage: 6V per pack, 2 packs  
Nominal Capacity: 2200mAh  
Standard Charging: 220mA charge 16 hrs  
Quick Charging: 660mA charge 4hrs  
Discharge End Voltage: 5.0V per pack  
Maximum Discharge: 2.2A Current  
Weight: 340g  
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: 153.3mm  
Width: 56.5mm  
Height: 19.7mm  
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 220mA for 16 hrs (Standard Charges)
- At a constant current of 660mA for 4hrs (Quick Charge)

The above tests are the ambient temperature of 20°C (+,-5°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 6.0V

- At 440mA discharge for 5hrs (0.2C)
- At 660mA discharge for 3.3hrs (0.3C)
- At 2200mA discharge for 54 minutes (1C)

### **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 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 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.

The supplier reserves the right to modify product specification and data stated herein without prior notice.