

# RMH0605



## 1. Scope

This technical specification is for the product of CM-166H Ni-MH rechargeable battery pack.

## 2. Cell Type

Cell: Sealed Ni-MH Cylindrical Cell 10pcs pack

Model: 1/2A 1100mAh

Size: 1/2A

## 3. Rating

Nominal Voltage: 12V per pack

Nominal Capacity: 1100mAh

Standard Charging: 110mA charge 16 hrs

Quick Charging: 550mA charge 2.4hrs

Discharge End Voltage: 10V per pack

Maximum Discharge: 2.2A Current

Weight: 230g

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: 73.7mm

Width: 57.0mm

Height: 35.0mm

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 110mA for 16 hrs (Standard Charges)
- At a constant current of 550mAh for 2.4hrs (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 10V

- At 220mA discharge for 5hrs (0.2C)
- At 330mA discharge for 3.3hrs (0.3C)
- At 1100mA discharge for 54 minutes (1C)
- At 2.2 A discharge for 25 minutes (3C)

### **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.