

# **AP-300 BATTERY**

## **1. Scope**

**This technical specification is for the product of AP-300 Ni-CD rechargeable battery pack.**

## **2. Cell Type**

**Cell: Sealed Ni-CD Cylindrical Cell 6pcs pack**

**Model: J-7/5AA1200**

**Size: 7/5AA**

## **3. Rating**

**Nominal Voltage: 7.2V per pack**

**Nominal Capacity: 1200mAh**

**Standard Charging: 120mA charge 16 hrs**

**Quick Charging: 1200mA charge 1.2 hrs**

**Discharge End Voltage: 6.0V per pack**

**Maximum Discharge: 2.4A Current**

**Weight: 209g**

**Charge Temperature: 0°C to 45°C**

**Discharge Temp: -30°C to 60°C**

**Storage Temperature: -20°C to 60°C**

## **4. Physical Specification**

**Length: 140.8mm**

**Width: 58.8mm**

**Height: 23.0mm**

**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 120mA for 16 hrs (Standard Charges)
- At a constant current of 1200mAh for 1.2 hrs (Quick Charge)

The above test 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 240mA discharge for 5hrs (0.2C)
- At 360mA discharge for 3.3hrs (0.3C)
- At 1200mA discharge for 54 minutes (1C)
- At 2.4A discharge for 25 minutes (2C)

### **5.3 Capacity Characteristics**

The battery pack should be at or more than 90% minimum 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 65%.

- 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.**