ENIX ENERGIES

AMN0607

1. Scope

This technical specification is for the product of AP-430 Ni-CD rechargeable battery pack.

2. Cell Type

Cell: Sealed Ni-CD Cylindrical Cell 10pcs pack
Model: KR-1500AUL
Size: 4/5A

3. Rating

Nominal Voltage: 12V per pack
Nominal Capacity: 1500mAh
Standard Charging: 150mA charge 16 hrs
Quick Charging: 1500mA charge 1.1~1.2hrs
Discharge End Voltage: 10.0V per pack
Maximum Discharge: 3A Current
Weight: 275g
Charge Temperature: $0^{o}C$ to $45^{o}C$
Discharge Temp: $-20^{o}C$ to $60^{o}C$
Storage Temperature: $-30^{o}C$ to $50^{o}C$

4. Physical Specification

Length: 106.6mm
Width: 68.0mm
Height: 39.4mm
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 150mA for 16 hrs (Standard Charges)
--At a constant current of 1500mAh for 1.1~1.2hrs (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 10.0V

--At 300mA discharge for 5hrs (0.2C)
--At 450mA discharge for 3.3hrs (0.3C)
--At 1500mA discharge for 54 minutes (1C)
--At 3 A discharge for 25 minutes (2C)

5.3 Capacity Characteristics

The battery pack should be at or more than 90% 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 80%.
--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 trickle charger and if charged by quick charger, use specified charger only.