

Date Sheet

Type-----ORN4600
System-----Sealed rechargeable Ni-MHCylindrical cell
Nominal Voltage-----1.2V
Application-----Discharge current 460mA to 30A (Continuous)
Capacity (TURBOMATCHER , discharged at 30A to 0.9v at 20)
 Nominal 4600mAh
 Minimum 4500mAh
 Typical 4550mAh

Internal resistance (at 1 kHz)
 Fully charged, 20 (approx)---1.6 ~ 1.8mΩ

Weight approx-----71g

Dimensions(including shrink sleeve)
 -Diameter -----23.0(+0 , -1.0mm)
 -Height -----43.0(± 0.5mm)

Cd content(%cell w):-----0%

Typical Discharge time&Avg.Voltage (20)
 30A-----545S-----1.235V

Max.discharge current(continuous)-----20C

Charging conditions(20)

standard charge-----460mA 14h
 quick charge-----4600mA 1.1h
 fast charge -----2A to 6A

Charge termination control recommended control parameter

- V 5mV
 DT/dt 0.8 /min(0.5-1C)
 0.8 -1 /min(>1C)

TCO 40-45

Timer 105%nominal input

Continuous 138mA maximum current for 1 year

Overcharge No conspicuous deformation and/or leakage

Max.charging voltage 1.5V at 460mA charging

Operation temperatures(recommended)

Storage----- -20 up to +35

Discharge----- -20 up to +50

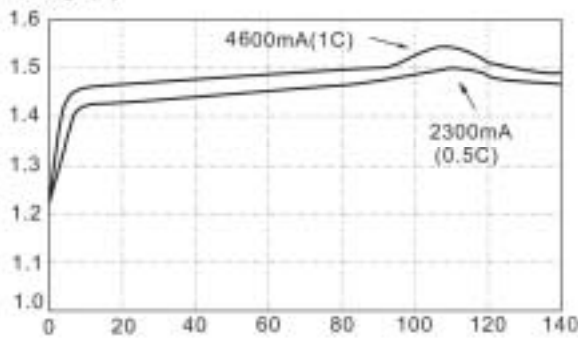
standard charge----- 0 up to +40

quickcharge,fastcharge--10 upto+40

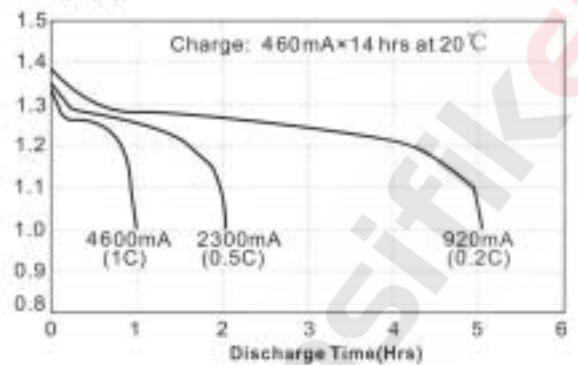
permanent charge-----+10 up to +45

Life expectancy(20)----->500 cycles

Fast Charge (Charge Control required)
Voltage(V)



Low Rate Discharge
Voltage(V)



High Rate Discharge
Voltage(V)

