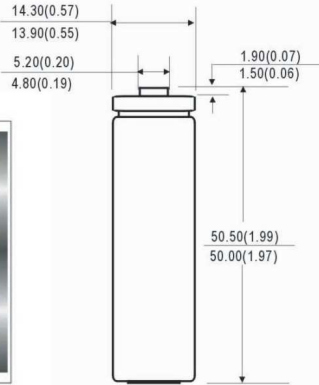


RECHARGEABLE BATTERY : Nickel Metal Hydride

Document Title: RB002250

NH-AA2500

Dimensions:



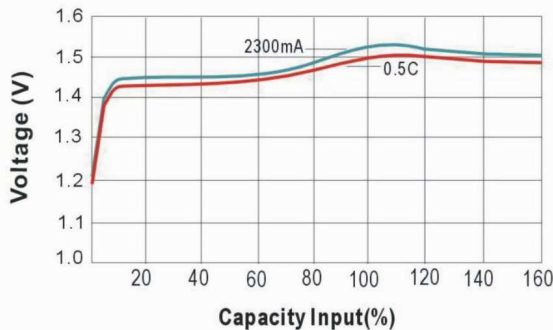
Unit: mm(inch)



NH-AA2500

| | |
|--|---|
| Chemical System | : Nickel Metal Hydride |
| Camelion Model | : NH-AA2500 |
| Average Weight | : 29.5g |
| Dimension (Ø x H) | : 14.1 ^{+0.2} x 50.5 ^{-0.5} mm (0.56 ^{+0.1} x 1.99 ^{-0.02} inch) |
| Nominal Voltage | : 1.2 Volts |
| Nominal Internal Resistance | : 25m-ohm @ 1kHz |
| Capacity(500mA constantly discharge to 1.0V at 20±2°C) | |
| Typical | : 2500mAh |
| Minimum | : 2300mAh |
| Max. Charge Current | : 2300mA |
| Max. Discharge Current | : 5000mA |
| Relative Humidity | : 65±20% |
| Jacket | : PVC Label |

Fast Charge Characteristics



Charging Conditions

| Mode | Current | Time | Temperature |
|----------|---------|--------------|-------------|
| Standard | 250mA | 16.0hrs | 0°C~45°C |
| Quick | 750mA | 4.0hrs | 10°C~45°C |
| Fast | 1150mA | 2.5hrs* | 10°C~45°C |
| Trickle | 60~90mA | Continuously | 10°C~35°C |

*Can also be controlled with - ΔV or dT/dt system
 $-\Delta V$: 0-10mV
dT/dt : 0.8°C/min(0.5C to 0.9C)
0.8-1.0°C/min(1C)
Timer cut off : 120% nominal capacity
Temp. cut off : 55°C

Continuous Overcharge

250mA maximum current for 28 days
No conspicuous deformation and/or leakage

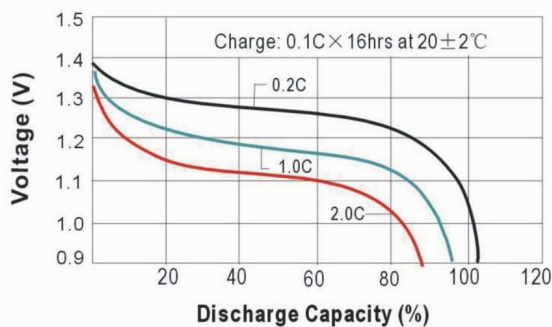
Operating and Storage Temperatures

Charge at 0.1C : 0°C to 50°C (32°F to 122°F)
Discharge at 0.1C : -20°C to 50°C (-4°F to 122°F)
Storage : -40°C to 50°C (-40°F to 122°F)
(3 Months Max.)
-20°C to 35°C (-4°F to 95°F)
(2 Years Max.)

Service Life

>500 cycles (IEC standard)
Up to 1000 cycles (not less than 60% of nominal at 0.1C Charge/0.2C discharge)

Discharge Characteristics



Notice:

Environmental elements comply with RoHS requirements. This information is subject to change without prior notice and for reference only. It should not be used as a basis for a product guarantee or warranty. For additional information, please consult your nearest Camelion Sales Office or Distributor or visit our website at: www.camelionbattery.com.