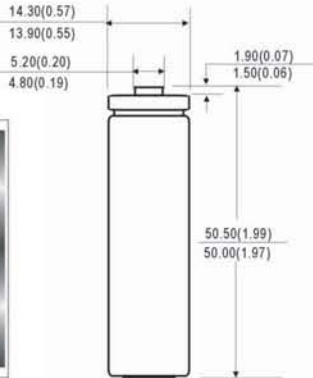


RECHARGEABLE BATTERY : Nickel Metal Hydride

Document Title: RB002250

NH-AA2500

Dimensions:

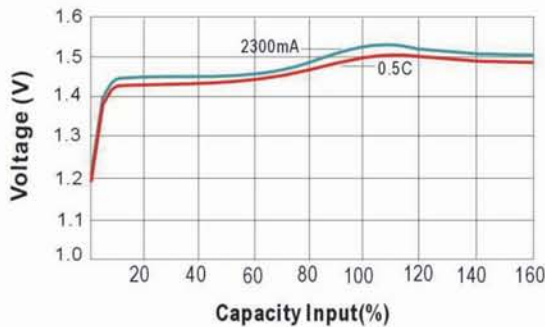


Unit: mm (inch)

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 ^{-0.3} 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

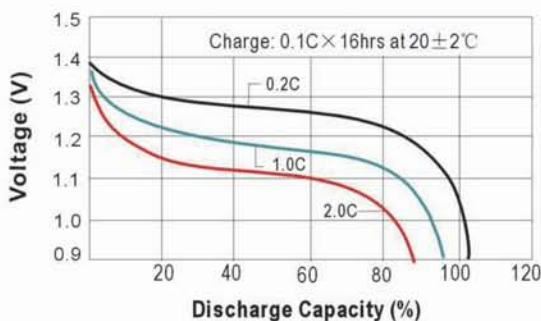
Operating and Storage Temperatures

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.