Camelion®

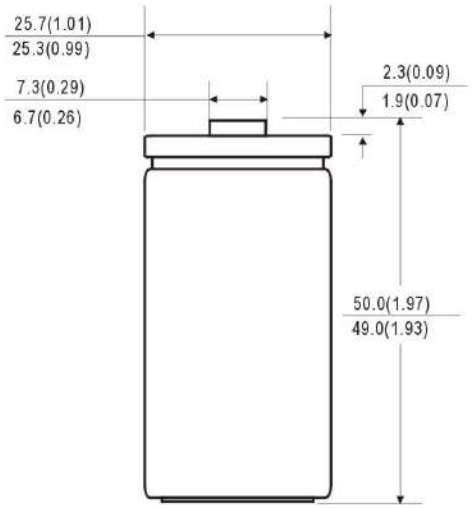
ENGINEERING DATA SHEET

RECHARGEABLE BATTERY : Nickel Metal Hydride

Document Title: RB005350

NH-C3500

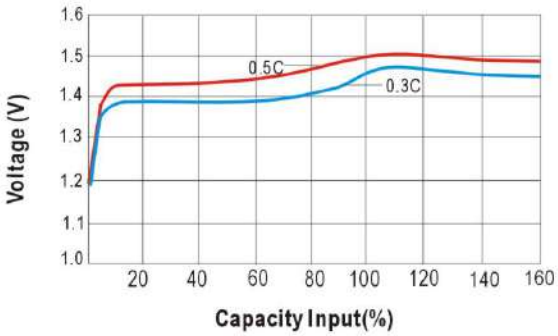
Dimensions:



Unit: mm(inch)

Chemical System	:	Nickel Metal Hydride
Camelion Model	:	NH-C3500
Average Weight	:	80.0g
Dimension (Ø x H)	:	$25.5^{\pm 0.2}$ x$49.5^{\pm 0.5}$mm ($1.00^{\pm 0.01}$ x$1.95^{\pm 0.02}$inch)
Nominal Voltage	:	1.2 Volts
Nominal Internal Resistance	:	20.0m-ohm @ 1kHz
Capacity (700mA constantly discharge to 1.0V at 20±2℃)		
Typical	:	3675mAh
Minimum	:	3500mAh
Max. Charge Current	:	1750mA
Max. Discharge Current	:	7000mA
Relative Humidity	:	65±20%
Jacket	:	PVC Label

Charge Characteristics



Charging Conditions

Mode	Current	Time	Temperature
Standard	350mA	15.0hrs	0℃~45℃
Quick	1050mA	5.0hrs	10℃~45℃
Fast	1750mA	2.5hrs*	10℃~45℃
Trickle	116~175mA	Continuously	10℃~35℃

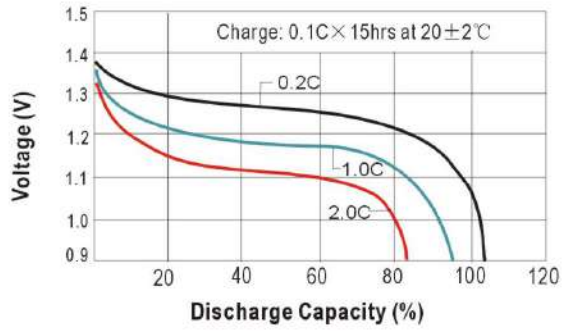
*Can also be controlled with - △V or dT/dt system

- △V : 0-10mV
dT/dt : 0.8℃/min(0.5C to 0.9C)
0.8-1.0℃/min(1C)
Timer cut off : 120% nominal capacity
Temp. cut off : 55℃

Continuous Overcharge

350mA maximum current for 28 days
No conspicuous deformation and/or leakage

Discharge Characteristics



Operating and Storage Temperatures

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

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.