

Datasheet

ENGLISH

1.2V NiMH Tagged Terminal CS NiMH Rechargeable Battery, 2200mAh

RS Stock number 476-2106



Specifications

Capacity Chemistry

Dimensions

Maximum Continuous Current

Nominal Voltage

Operating Temperature Range

Size

Terminal Type

2200mAh

NiMH

43.5 x 23mm

440mA

1.2V

 $0 \rightarrow +70^{\circ}C$

SC

Tagged



Ratings:

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Description	Unit	Specification	Conditions	
Nominal Voltage	V/cell	<u>1.2</u>	Unit Cell	
Nominal Capacity	mAh	2200	Standard Charge/Discharge	
Nominal Dimension (with sleeve)	mm	Φ=23 max. H=43.5 max.	Unit Cell	
Weight Approx.	g	<u>52</u>	Unit Cell	
Standard Charge	mA	<u>220</u> (0.1C)	T=0∼45°C	
	hour	<u>15</u>		
Fast Charge	mA	<u>660</u> (0.3C)	Tmax=55°C -△V=5mV/cell △T/△t≤0.5°C/min Timer CutOff=120%	
	hour	<u>4</u>		
Trickle Charge	mA	<u>110~132</u> (0.05C~0.06C)	T=0∼70°C	
Standard Discharge	mA	<u>440</u> (0.2C)	T= 0~70°C Cut-off Voltage=1.0V/Cell	
Storage Temperature	°C	<u>-30 ∼35</u>	Charge State	

Performance and Test Methods:

Unless otherwise stated, tests should be done within one month of delivery.

Under the following conditions: Ambient Temperature, T: 20±5°C Relative Humidity,: 65±20%

Note 1 : Standard Charge/Discharge Condition: Charge : 220 mA (0.1C) ×15hrs

Discharge: 440 mA (0.2C) to 1.0V/cell



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Test	Unit	Specification	Conditions	Remarks
Capacity	mAh	≥2200	Standard Charge/Discharge	Up to 5 cycles are allowed
Open circuit voltage(CCV)	V/Cell	≥ <u>1.25</u>	Within 1 hour after standard charge	
Internal Impedance	mΩ/Cel I	≤ <u>15</u>	Upon fully Charge(1KHZ)	Unit cell
Discharge at 1CmA	Minute	≥ <u>54</u>	Standard Charge,1 hour rest before discharge	
Overcharge	N/A	No leakage nor explosion	<u>110</u> mA (0.05C) charge 28 days	
Reverse charge	N/A	Leakage& deformation may occur, but no explosion is allowed	0.2CmA discharge to 0V, then reverse charge with 1CmA for 1 hour	
Charge Retention	mAh	≥ <u>1430</u> (65%)	Standard charge, Storage:28 days, Standard Discharge	
IEC Cycle Life	Cycle	See note.2	IEC61436 (1999) 4.4.1	
Short circuit	N/A	Leakage& deformation may occur, but no explosion is allowed	After standard charge, short circuit for 1 hour. (load ≤100mΩ for 24hrs)	
Mechanical test	hour	t(duration of discharge) ≥5	Charge the battery 0.1CmA 15hrs, carry out bump test under the following condition: Peak acceleration(A):98n/s 2 (10G) Corresponding duration of pulse(D) 16ms Corresponding velocity change 1.00m/s Number of bumps 1000 ± 10 Then stand for $1\sim4$ hrs, Discharge at 0.2CmA	

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External Appearance

The cell/battery shall be free from cracks, scars, breakage, rust, discoloration, leakage and deformation.

Caution

- 1. Reverse charge is not acceptable.
- 2. Charge before use. The cells/batteries are delivered in an uncharged state.
- 3. Do not charge/discharge with more than specified current.
- 4. Do not short circuit the cell/battery.
- 5. Do not incinerate or mutilate the cell/battery.
- 6. Do not solder directly to the cell/battery.
- 7. The life expectancy may be reduced if the cell/battery is subjected to adverse conditions like: extreme temperature, deep cycling, excessive overcharge/over-discharge.
- 8.Store the cell/battery uncharged in cool dry place. Always discharge batteries before bulk storage or shipment.

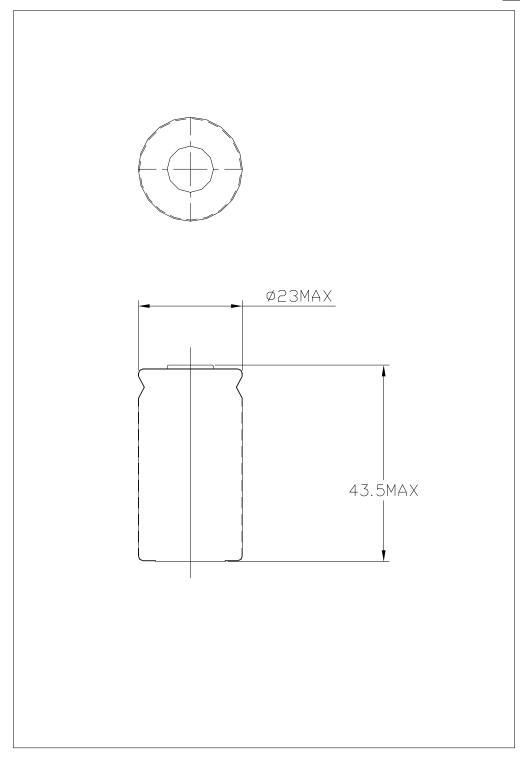
Cycle number	Ambient temperature	Charge	Discharge	Minimum Discharge duration
1	55°C±2°C	0.0625CmA for 24h	0.2CmA to 1.0V	3h45min
2	55 C±2 C	0.0625CmA for 24h	0.2CmA to 1.0V	3h45min
3	70°C±2°C	0.0625CmA for 48h	0.2CmA to 1.0V	No requirement
4 5	55°C±2°C	0.0625CmA for 24h 0.0625CmA for 24h	0.2CmA to 1.0V 0.2CmA to 1.0V	3h45min 3h45min

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Dimensional Drawing

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