



Product Specification

NIMH

1/2D 6,0V 3500mAh

Cylindrical Nickel-Hydrde Battery Specification

1. PRODUCT INFORMATION

Cell size references	NIMH 1/2D 6,0V 3500mAh
Document release date	13/08/21

The data involving nominal voltage and the approximate weight of stake-up batteries shall be equal to the value of the unit cell multiplied by the number of unit cells in the battery.
Nominal voltage of unit cell = 1,2V

2. RATINGS

Description	Unit	Specification	Conditions
Nominal Voltag	V	6.0V	
Nominal Capacity	mAh	3500	Standard Charge/discharge
Minimum Capacity	mAh	3500	Standard Charge/discharge
Standard Charge	mA	350(0.1C)	Ta=0~45°C
	hour	14-16	
Fast Charge	mA	0.5C	Timer Cutoff=120%nominal capacity , Temp.Cutoff=55°C, dT/dt=0.8°C/min, T1=20±5°C
	hour	2.4 approx	
Trickle Charge	mA	0.03C ~ 0.05C	Ta=0~55 °C
Standard discharge	mA	700(0.2C)	T1=-20~55°C Humidity: Max85%
Discharge Cut-off Voltage	V	5.0V	
Storage Temperature	°C	-20~30(Within 1 year)	Discharged state Humidity: Max85%
		-20~40(Within 6 months)	
		-20~50(Within 1 month)	
		-20~60(Within 1 week)	
Typical Weight	g	413	



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3. PERFORMANCE

Unless otherwise stated, tests should be done within one month of delivery under the following conditions:

Ambient temperature: $T_a=20\pm 5^\circ\text{C}$

Relative Humidity: $65\pm 20\%$

Standard Charge/Discharge Condition:

Charge: $350\text{mA}(0,1\text{C})\times 16\text{hrs}$

Discharge: $700\text{mA}(0,2\text{C})$ to $5,0\text{V}/\text{pack}$

Test	Unit	Specification	Conditions	Remarks
Capacity	mAh	≥ 3500	Standard Charge/Discharge	Up to 3 cycles are allowed
Open Circuit Voltage (OCV)	V	≥ 6.0	Within 1hr after standard charge	
Internal Impedance (Ri)	m Ω	≤ 90	Upon fully charge(1kHz) (1kHz)	
High Rate Discharge (1C)	min	≥ 51	Standard Charge, 1hr rest before discharge	
Charge Retention	mAh	≥ 2100 (60%)	Standard Charge, Storage: 1months, Standard Discharge	
Leakage		No leakage nor deformation	Fully charged at 350mA 48 hrs	



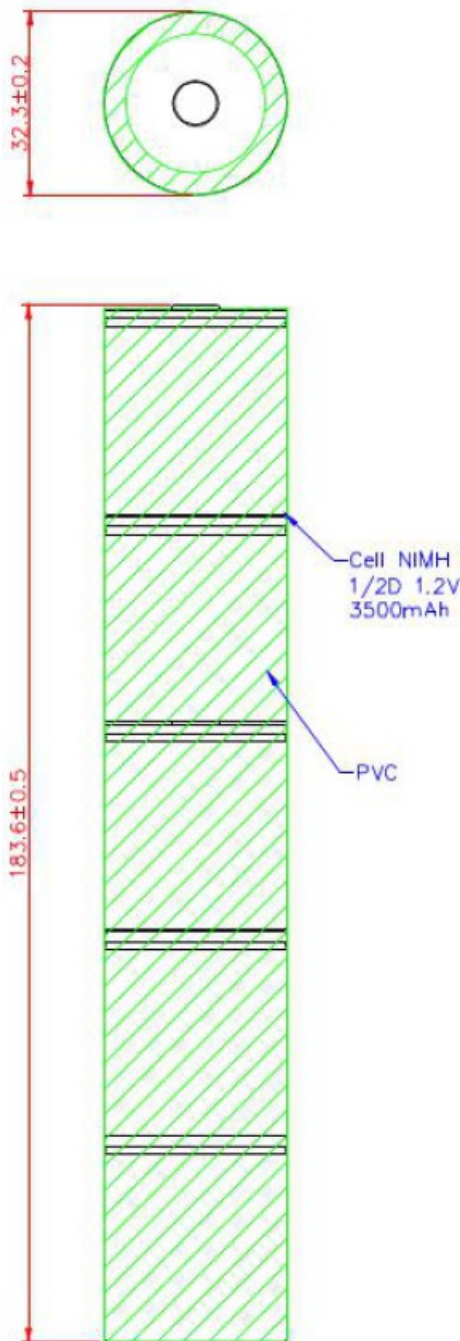
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4. CONFIGURATION, DIMENSIONS AND MARKINGS





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5. EXTERNAL APPEARANCE

The cell/battery shall be free from cracks, scars, breakage, rust, discoloration, leakage nor deformation.

6. CAUTION

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

Notes:

- 1- T1= Ambient temperature
- 2- Approximate charge time from discharged state, for reference only.