

Customer			
Part name	Ni-MH Battery		
Model No	Ni-MH 9V 35		
Serial No			
Produce No			
Approved by]	Drafted by	WenFei Liang
Checked by	S	Signed by	Xiaojun nie
Prepared by	N	alid Date	2018-09-26



1. SCOPE

This specification governs the performance of the following pkcell Nickel-Metal Hydride Cylindrical Cell and its stack-up batteries.

pkcell Model: Ni-MH 9V350mAh

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 Voltage	V	8.4		
Nominal Capacity	mAh	350	Standard Charge/discharge	
Minimum Capacity	mAh	315	Standard Charge/discharge	
Standard Change	mA	35(0.1C)	Ta=0∼45°C	
Standard Charge	hour	14-16		
	mA	175(0.5C)	-ΔV=35~70mV/pcs Timercutoff=110%input	
Fast Charge	hour	2.2approx	capacity $^{-2}$ - Temp.cutoff=55°C Ta=10~45°C	
Trickle Charge	mA	17.5(0.05C) ~ 35(0.1C)	Та=0∼45 ℃	
Discharge Cut-off Voltage	V	7.0	Ta=-20∼55℃	
Maximum Discharging Current	mA	350 (1C)	Ta=10∼45°C	
Storage Temperature	°C	-20∼35℃	Discharge state	

3. PERFORMANCE

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

conditions:

Ambient Temperature: Ta= 20 ± 5 °C Relative Humidity: 65 ± 20 % Standard Charge/ Discharge Condition:

PYCELL Green energy, easy life SHENZHEN PKCELL BATTERY CO.,LTD

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Charge: 35mA(0.1C)×16hrs Discharge: 70mA(0.2C) to 1.0V/ cell

Table 1				
Test	Unit	Specification	Conditions	Remarks
Capacity(0.2C)	min	≥290	Standard Charge/Discharge	Up to 3 cycles are allowed
Open Circuit Voltage (OCV)	V	≥8.75	Within 1hr after standard charge	
Internal Impedance (Ri)	mΩ	≤700	Upon fully charge(1kHz) (1kHz)	
High Rate Discharge (0.5C)	min	≥108	Standard Charge,1hr rest before discharge	
High Rate Discharge (1C)	min	≥54	Standard Charge, 1hr rest before discharge	
Overcharge	N/A	No leakage nor explosion	35mA(0.1C) charge 48 hours	
Charge Retention	mAh	≥245(70%)	Standard Charge, Storage: 7 days at 45°C,0.2C Standard Discharge	- 3 -
IEC Cycles Test	Cycle	≥500	IEC61951-2 (2003)	

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Unit	Specification	Conditions	
NT/A	No leakage nor	Full charged at (0.1C) stand for 14	
1N/A	deformation.	days	
	Leakage & deformation	After standard charge, short circuit	
N/A	N/A may occur, but no	for 1 hour(leading	
	explosion is allowed.	wire=0.75mm ² ×20mm)	
		Charge the battery 0.1C 16hrs,the	
	Change of voltage	n leave for 24hrs. check battery b	
NI/A	$\Delta V < 0.02 V$,	efore / after vibration.	
$ 1 \mathbf{N} / \mathbf{A} $	Change of internal	Amplitude:1.5mm	
	Impedance $\Delta Ri < 5 m\Omega$.	Vibration:3000CPM	
		Any direction for 60mins.	
	Change of voltage	Charge the battery 0.1C	
N/A	<u> </u>	16hrs, then leave for 24hrs.	
1,11	Change of internal	(check battery before / after)	
	N/A	N/ANo leakage nor deformation.N/ALeakage & deformation may occur, but no explosion is allowed.N/AChange of voltage $\Delta V < 0.02V$, Change of internal Impedance $\Delta Ri < 5 m\Omega$.N/AChange of voltage $\Delta V < 0.02V$, Change of voltage $\Delta V < 0.02V$, Change of voltage	



Impedance $\Delta Ri < 5 m\Omega.$	dropped, Height:50cm,Wooden board(thickness 30mm)Direction not specified 3 times.
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4. CONFIGURATION, DIMENSIONS AND MARKINGS

Please refer to the attached drawing.

5. EXTERNAL APPEARANCE

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

6, CAUTION

- ◆.Reverse charging is not acceptable
- ◆.Do not burthen current when charging.
- ◆.Do not charge/discharge with more than the specified current.

•.Do not short circuit the cell/ battery. Permanent damage to the cell/ battery may result.

 \blacklozenge . Do not incinerate or mutilate the cell/ battery.

◆.Do not subject batteries to adverse conditions like: extreme temperature, deep cycling and excessive Overcharge/overdischarge.The life expectancy may be reduced.

◆.Store the cell/ battery in a cool dry place. Always discharge the cell/battery before bulk storage or shipment.

◆. Cycle(charge and discharge) the battery every 6-9months to maintain cell/battery performance when being stored for an extended period of time.

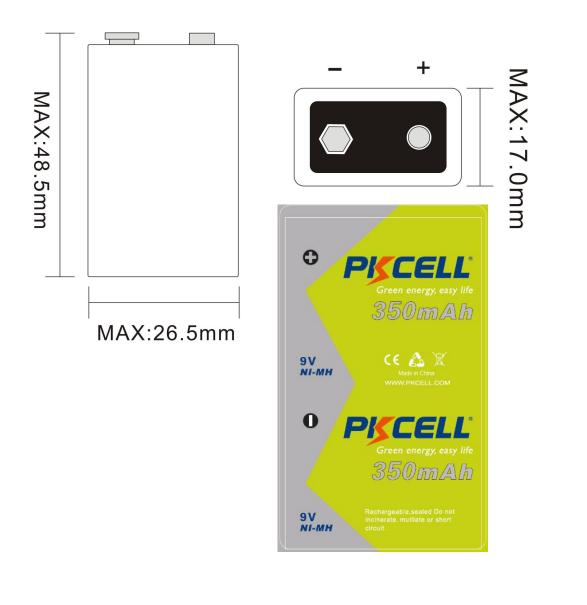
◆.Keep away from children. If swallowed, contact a physician at once.

◆. Avoid airtight battery compartments. Ventilation should be provided in the plastic case of batteries, otherwise oxygen and hydrogen gas generated inside can cause explosion when exposed to fire sources such as motors or switches.

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7. Dimensions of the battery:



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