

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



**RATINGS**

Description	Unit	Specification	Conditions
Nominal Voltage	V	4.8	
Nominal Capacity	mAh	1300	Standard Charge/discharge
Minimum Capacity	mAh	1170	Standard Charge/discharge
Standard Charge	mA	130(0.1C)	Ta=0~45°C
	hour	14-16	
Fast Charge	mA	650(0.5C)	-ΔV=20~40mV/PCS Timercutoff=110%input capacity Temp.cutoff=55°C Ta=10~45°C
	hour	2.2approx	
Trickle Charge	mA	65(0.05C) ~ 130(0.1C)	Ta=0~45 °C
Discharge Cut-off Voltage	V	4.0	Ta=-20~55°C
Maximum Discharging Current	mA	2600 (2C)	Ta=10~45°C
Storage Temperature	°C	-20~35°C	Discharge state

**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:

Charge: 130mA(0.1C)×16hrs

Discharge: 260mA(0.2C) to 1.0V/ cell



Table 1

Test	Unit	Specification	Conditions	Remarks
Capacity(0.2C)	min	$\geq 290$	Standard Charge/Discharge	Up to 3 cycles are allowed
Open Circuit Voltage (OCV)	V	$\geq 5$	Within 1hr after standard charge	
Internal Impedance (Ri)	m $\Omega$	$\leq 220$	Upon fully charge(1kHz) (1kHz)	
High Rate Discharge (0.5C)	min	$\geq 108$	Standard Charge, 1hr rest before discharge	
High Rate Discharge (1C)	min	$\geq 54$	Standard Charge, 1hr rest before discharge	
Overcharge	N/A	No leakage nor explosion	130mA(0.1C) charge 48 hours	
Charge Retention	mAh	910(70%)	Standard Charge, Storage: 7 days at 45°C, 0.2C Standard Discharge	
IEC Cycles Test	Cycle	$\geq 500$	IEC61951-2 (2003)	

Table 2

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

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Impact Resistance	N/A	Change of voltage $\Delta V < 0.02V$ , Change of internal Impedance $\Delta R_i < 5 \text{ m}\Omega$ .	Charge the battery 0.1C 16hrs, then leave for 24hrs. (check battery before / after ) dropped, Height:50cm, Wooden board(thickness 30mm) Direction not specified 3 times.
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## CONFIGURATION, DIMENSIONS AND MARKINGS

Please refer to the attached drawing.

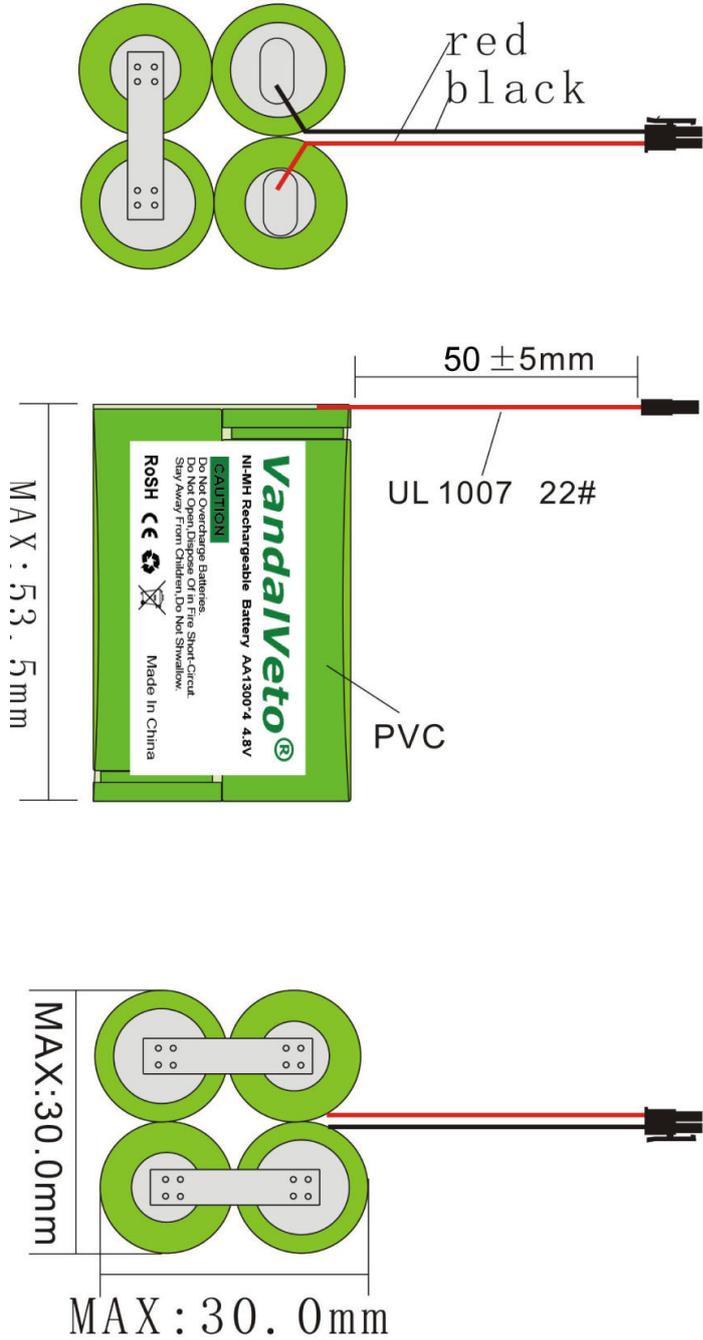
## EXTERNAL APPEARANCE

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

## 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.
- ◆. 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.

**Dimensions of the battery:**



(If manufacturer want to modify the product technology specification, we won't inform you additionally)