

# Tenergy Corp.

Document Number:

Revision: 3

Document Title: Product Specification of Ni-MH - D10000 Cells

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## 1、SCOPE

This specification governs the performance of the following Nickel-Metal hydride Cylindrical cell and its stack-up battery.

Model: MH- D10000

Cell Size: D( $\phi 32.1^{+0.2} \times 61.0^{+0.5}$ )

## 2 、DATA OF STACK UP BATTERIES

All data involves voltage and weight to stack-up battery are equal to the value of unit cell time the number of unit cell which consisted in the stack-up batteries

Example : Stack-up batteries consisting three unit cells

Nominal voltage of unit cell=1.2V

Nominal voltage of stack-up batteries =1.2V $\times$ 3=3.6V

## 3、 RATINGS

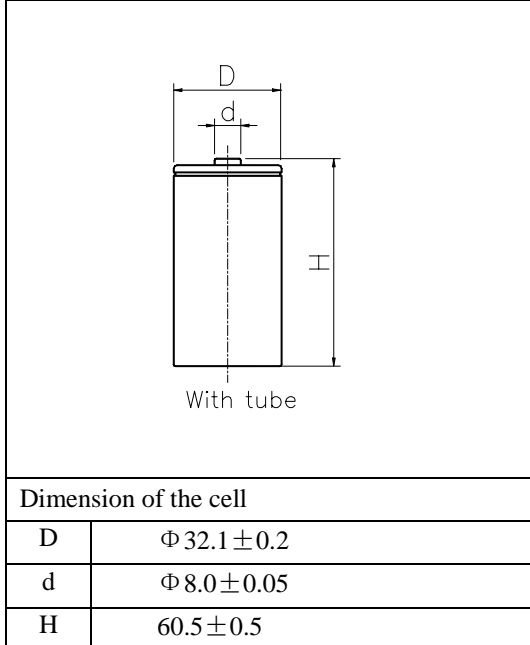
Description	Unit	Specification	Conditions
Nominal Voltage	V/Cell	1.2	Unit cell
Nominal Capacity	mAh	10000	Standard Charge/Discharge
Standard Charge	mA	1000(0.1C)	T <sub>1</sub> =0~45°C(see Note1)
	Hour	14~16	
Quick Charge	mA	3000 (0.3C)	- $\Delta V=0\sim 5\text{mV}/\text{cell}$ or Timer Cutoff=120% nominal capacity or Temp.Cutoff=55°C, T <sub>1</sub> =10~45°C
	Hour	4.0approx (see Note 2)	
Trickle Charge	mA	(0.05C)~(0.1C)	T <sub>1</sub> =0~45°C
Standard discharge	mA	1800 (0.2C)	T <sub>1</sub> = -30~60°C Humidity: Max.85%
Discharge Cut-off Voltage	V/cell	1.0	
Storage Temperature	°C	-30~65	Discharged state、 Humidity、 Max.85%
Typical Weight	Gram	165	Unit cell





**MODEL No: MH-D10000**  
**NI-MH**

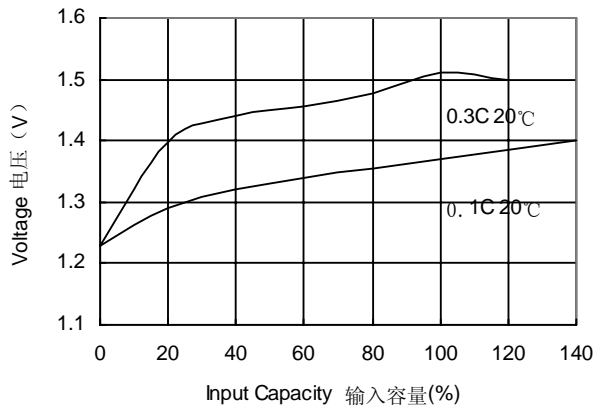
**Description:10000mAh D SIZE**



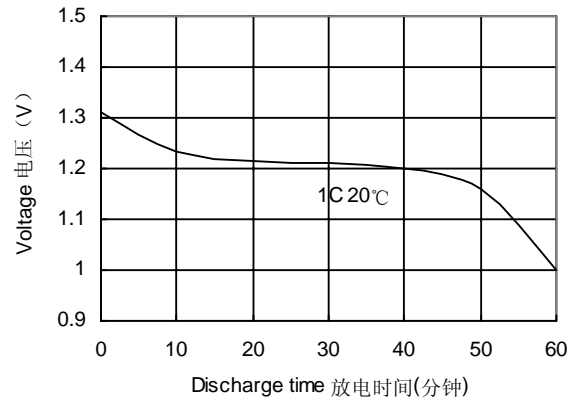
**Specification**

Nominal Capacity 额定容量		10000 mAh	
Nominal Voltage 额定电压		1.2 V	
Charge current 充电电流	Standard 标准	1900mA	
	Quick 快充	3000 mA	
Charge time 充电时间	Standard 标准	14~16 Hrs	
	Quick 快充	4.0 Hrs	
Ambient Temperature 使用温度	Charge 充电	Standard 标准	0°C~45°C
		Quick 快充	10°C~45°C
	Discharge 放电		-30°C~60°C
	Storage 储存		-30°C~65°C
Internal Impedance(mΩ) (After Charge) 充电后内阻		Max ≤ 7.0	
Weight 重量		165g	

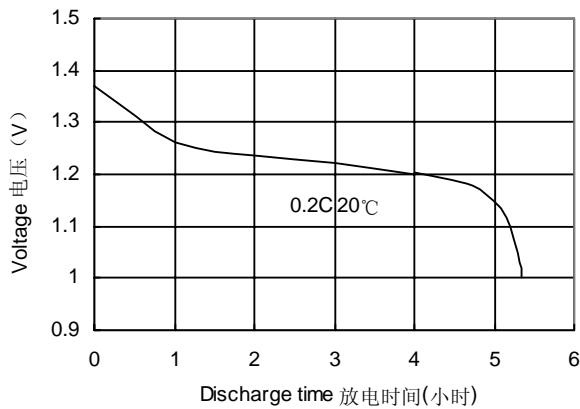
Charge(充电)



Discharge at high rate(高倍率放电)



Discharge at low rate(低倍率放电)



Charge Retention(荷电保持能力)

