



**1. Designation:**

Ni-MH NV-6F22 (160mAh)

**2. Chemical System:**

Nickel-Metal hydride cell

**3. Nominal Voltage:**

8.4 V

**4. Approximate Weight:**

39.0 g

**5. Dimensions & Structure :**

Dimensions & structure of the battery are shown in the attached Fig. 1.

**6. Jacket :**

Plastic Tube Jacket

**7. Characteristics:**

Characteristics of the battery are shown in the following table.

◇ T<sub>1</sub> : Ambient Temperature.

Description	Unit	Specification	Conditions
Nominal Voltage	V/Cell	8.4	Unit cell or stack-up batteries
Nominal Capacity	mAh	160	Standard Charge/Discharge
Standard Charge	mA	16	T <sub>1</sub> =0~45 (see Note1)
	Hour	14	
Fast Charge	mA	32 (0.5C)	- V=0~5mV/cell or Timer Cut off=120% nominal capacity or Temp. Cut off=55 ,T <sub>1</sub> =10~45
	Hour	6 approx	
Trickle Charge	mA	4.8 (0.05C)~(0.1C)	T <sub>1</sub> =0~45
Standard discharge	mA	200 (0.2C)	T <sub>1</sub> = -30~60 Humidity : Max.85%
Discharge Cut-off Voltage	V/cell	7.0	
Storage Temperature		-20~+35 Within 2 years	Discharged state、 Humidity、 Max.85%



## 8. Performance

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

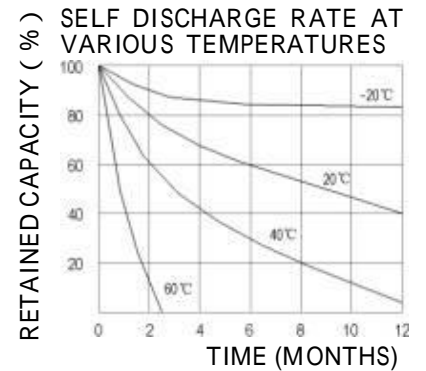
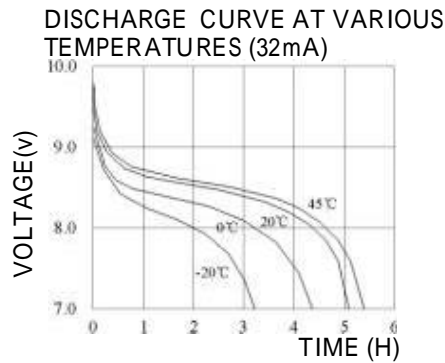
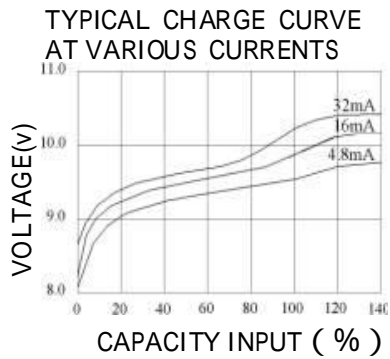
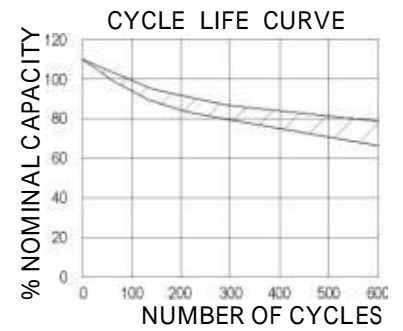
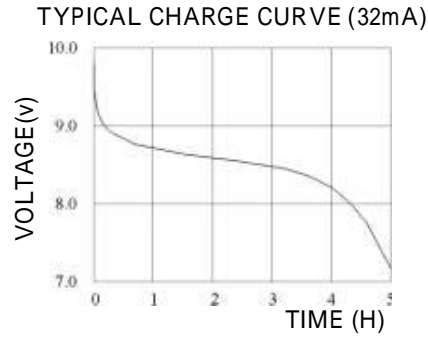
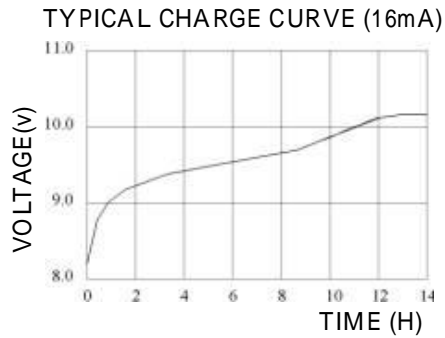
Ambient Temperature,  $T_1$  :  $20 \pm 5$

Relative Humidity :  $65 \pm 20\%$

Test	Unit	Specification	Conditions	Remarks
Capacity	mAh	160	Standard charge/discharge	Up to 3 cycles are allowed
Open Circuit Voltage (OCV)	Voltage (V)	9.1	After 1 hour standard charge	
Internal Impedance	m $\Omega$ /cell	500	Upon fully charge (1KHz)	
High rate Discharge (0.5C)	Minute	60	Standard charge Before discharge	
Discharge Current	Ma	80	Maximum continuous discharge current	
Over charge		No leakage Not explosion	4.8mA(0.03C) charge one year	
Charge Retention	mAh	144	Standard charge; Storage: 28 days; Standard discharge	
Cycle Life	Cycle	500	IEC285 (1993) 4.4.1	
Leakage		No leakage nor deformation	Fully charge at 16mA, stand 14 days	



## 9. Discharge Curve :



## 10. Markings on Product :

- (1) NV-6F22 (160mAh)
- (2) Brand: Novacell
- (3) Polarity: "+" and "-"
- (4) Other specified markings



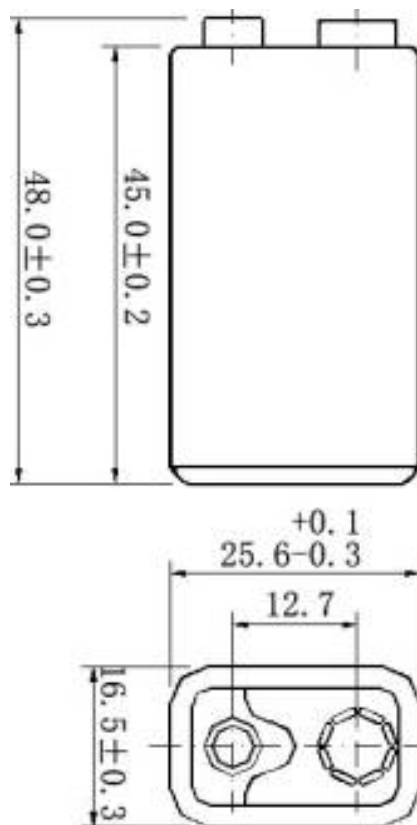
### **11. Caution for Use :**

The cells shall be delivered in charged condition. Before testing or using, the cell shall be discharged at  $20\pm 5$  at a constant current of  $0.2CmA$  to a final voltage of  $1.0V/cell$ .

1. Avoid throwing cells into a fire or attempting to disassemble them.
2. Avoid short-circuiting the cells.
3. Avoid direct solidarity to cells.
4. Observe correct polarity when connecting.
5. Do not charge with more than our specified current.
6. Use cells only within the specified working temperature range.
7. Store cells in dry and cool place.

### **12. Warranty : 12 months shelf life after delivery.**

**Fig. 1**





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## **TECHNICAL SPECIFICATION**

### **NICKEL METAL-HYDRIDE RECHARGEABLE BATTERY**

#### **Ni-MH NV-6F22 【160mAh】**

Date FEB. 01, 2006

Sign GLOSO CO., LTD