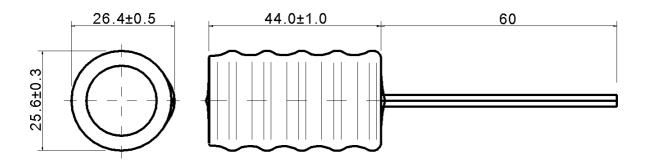
B40151 Ni-MH BUTTON CELL

TECHNICAL DATA



Model	Voltage	Capacity	Recommended Trickle Charge Current	Nominal Charge Current	Normal Charging Time	Nominal Discharge Current	Weight
B40151	6.0V	330mAh	9.9~16.5mA	33mA	14~16h	66mA	70g

TECHNICAL CHARACTERISTICS

7.0

6.5

6.0

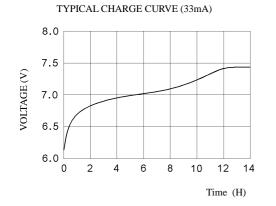
5.5

5.0

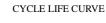
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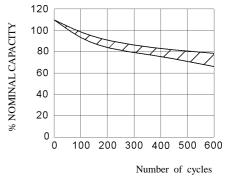
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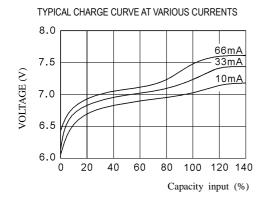
VOLTAGE (V)



TYPICAL DISCHARGE CURVE (66mA)







DISCHARGE CURVE AT VARIOUS TEMPERATURES (66mA)

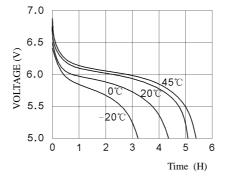
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3

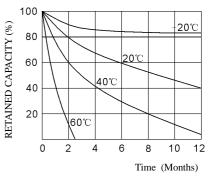
4

Time (H)

5



SELF DISCHARGE RATE AT VAROUS TEMPERATURES



TECHNICAL INFORMATION

1. APPLICATION This specification applies to the Ni-MH batteries

Model : B40151

- 2. CELL AND TYPE
- 2.1 Cell : Sealed Ni-MH Button Cell
- 2.2 Type : Button type
- 2.3 Size type : 6.0V
- 3. RATINGS
- 3.1 Nominal voltage : 6.0V
- 3.2 Nominal capacity : 330mAh
- 3.3 Typical weight : 70g
- 3.4 Standard charge : $33mA \times 14hours$
- 3.5 Rapid charge : 66mA×6hours
 - Trickle current : 9.9mA
- 3.6 Discharge cut-off voltage: 5.0V
- 3.7 Temperature range for operation (Humidity: Max.85%)

Standard charge	$0 \sim +45^{\circ} \text{C}$		
Rapid charge	$+10 \sim +45$ °C		
Trickle charge	$0 \sim +45$ °C		
Discharge	-10 ~ +45 ℃		

- 3.8 Temperature range for storage (Humidity: Max.85%) Within 2 years $-20 \sim +35^{\circ}$ C Within 6 months $-20 \sim +45^{\circ}$ C
 - Within a month $-20 \sim +45^{\circ}$ CWithin a week $-20 \sim +55^{\circ}$ C
- 4. ASSEMBLY & DIMENSIONS Per attached drawing
- 5. PERFORMANCE
- 5.1 TEST CONDITIONS

The test is carried out with new batteries (within a month after delivery) ambient conditions

Temperature: $+25 \pm 5^{\circ}$ C Humidity: $60 \pm 20\%$ Note 1 Standard charge : $33\text{mA} \times 14\text{hours}$ Standard discharge : 66mA to 5.0V

5.2 TEST METHOD & PERFORMANCE

Test	Unit	Specification	Conditions	Remarks
Comocity	mAh	≥330	Standard	Up to 3 cycles
Capacity		≥330	Charge/discharge	Are allowed
Open Circuit	Voltage	≥6.5	After 1 hour standard	
Voltage (OCV)	(V)	≥0.3	Charge	
Internal	mΩ/cell	≤800	Upon fully charge	
Impedance	III S2 /Cell	≪800	(1KHz)	
High rate	Minute	≥60	Standard charge	
Discharge (165 mA)	Minute		Before discharge	
Discharge	mA	165	Maximum continuous	
Current	IIIA	165	Discharge current	
Over charge		No leakage	9.9mA charge	
Over charge		Not explosion	one year	
Charge		264	Standard charge;	
Retention	mAh		Storage: 28 days;	
Retention			Standard discharge	
Cycle Life	Cycle	≥400	IEC/CEI61951-2:2001. 4.4	
Laskaga		No leakage nor	Fully charge at 33mA,	
Leakage		Deformation	Stand 14 days	

Note 2 IEC/CEI61951-2:2001. 4.4 cycle life

Charge	Stand in charged Condition	Discharge	
33mA for 16h	None	82.5mA for 2h20min	
82.5mA for 3h10min	None	82.5mA for 2h20min	
82.5mA for 3h10min	None	82.5mA to 1.0V/cell	
33mA for 16h	1h to 4h	66mA to 1.0V/cell	
	33mA for 16h 82.5mA for 3h10min 82.5mA for 3h10min	33mA for 16h None 82.5mA for 3h10min None 82.5mA for 3h10min None	

1. Befor the endurance in cycles test, the cell shall be discharged at 66mA to a final voltage of 1.0V/cell.

2. The following endurance test shall then be carried out, in an ambient temperature of $20^{\circ}C \pm 5^{\circ}C$.

5.3 Humidity

The battery shall not leak during the 14 days which it is submitted to the condition of a temperature of $33\pm3^{\circ}$ C and a relative humidity of $80\pm5\%$.

- 6. OTHERS
- 6.1 We recommend you to set the cut-off voltage at 1.0V/cell.
- 6.2 If the cut-off voltage is above 1.1V/cell, the battery may be underutilized resulting insufficient use of the available capacity.
- 6.3 If it is below 1.0V/cell,the battery may have discharge or reverse charge to the cell.

7. PRECAUTION

The cells shall be delivered in charged condition. Before testing or using, the cell shall be discharged at $20\pm5^{\circ}$ °C at a constant current of 66mA to a final voltage of 1.0V/cell.

- 7.1 Avoid throwing cells into a fire or attempting to disassemble them.
- 7.2 Avoid short circuiting the cells.
- 7.3 Avoid direct solidarity to cells.
- 7.4 Observe correct polarity when connecting.
- 7.5 Do not charge with more than our specified current.
- 7.6 Use cells only within the specified working temperature range.
- 7.7 Store cells in dry and cool place.