



1 Scope

This specification is applicable to the “Vinnic®” brand Nickel -Metal Hydride rechargeable batteries for type H80BC

Chung Pak model : H80BC

IEC model : KB156/061(KBL16/7)

2 Technical Parameters

Items	Units	Parameters	Conditions and others
Nominal Voltage	V	1.2	Unit cell
Capacity a.nominal capacity	mAh	80	Standard charge/discharge
b.typical capacity	mAh	90	Standard charge/discharge
Charging Method	mA	8(0.1C)	Charge at 20± 5°C
a. standard charge	h	14~16	Charging temperature : 0~+45°C
b. accelerated charge	mA	16(0.2C)	Charge at 20± 5°C
	h	8	Charging temperature : 10~+45°C
c. trickle charge	mA	2.4~4.0	Continuous charge at 0.03~0.05C and 0~45°C
Discharging Method	h	≥5	Discharge at 0.2C(16mA) to a final voltage of 1.0V at 20± 5°C
a.standard discharge(0.2C)	min	≥80	Discharge at 0.5C(40mA) to a final voltage of 0.9V at 20±5°C
b.maximum discharging current (0.5C)	h	≥4	Discharge at 0.2C(16mA) to a final voltage of 1.0V.
c.discharge at 0± 2°C (0.2C)	h	≥4.25	At 20± 5°C,charge at 0.1C(8mA) for 28 days, rest for 1~4h, then discharge at 0.2C(16mA) to a final voltage of 1.0 V.
Overcharge	h	≥3.75	After standard charge, store for 28 days at 20± 5°C, then discharge at 0.2C(16mA) to a final voltage of 1.0V
Charge Retention	cycle	≥500	IEC509 : 1988(4.4)
Cycle Life	°C	20± 10	Discharge at 0.2C(16mA) to a final voltage of 1.0V,then store for 12 months.
Storage Temperature	%	65± 20	
Storage Relative Humidity	°C	-20~+45	
Discharge Temperature	mm	15.6(-0.3)	
Dimension a. Diameter	mm	6.1(-0.6)	
b. Height	g	4.0	
Weight (approx.)			

When the battery open-circuit voltage is below 1.25V before first time application or after long time storage, the battery shall be charged at 0.1C(8mA) for 16h or at 0.2C(16mA) for 8h, and rested for 1~4h, then discharged at 0.2C(16mA) to a final voltage of 1.0V. Recycle for 2~3 times, then charge the battery to restore capacity for using.