



Nickel-Metal Hydride Rechargeable Batteries H150-9V

1 Scope

This specification is applicable to the “Vinnic” brand Nickel Metal Hydride rechargeable batteries for type H150-9V .

Chung Pak model : H150-9V

2 Technical Parameters

Items	Units	Parameters	Conditions and others
Nominal Voltage	V	8.4	
Capacity a.nominal capacity	mAh	150	Standard charge/discharge
b.typical capacity	mAh	155	Standard charge/discharge
Charging Method	mA	15(0.1C)	Charge at 20±5℃
a. standard charge	h	14~16	Charging temperature : 0~+45℃
b. accelerated charge	mA	30(0.2C)	Charge at 20±5℃
	h	8	Charging temperature : 10~+45℃
c. trickle charge	mA	4.5~7.5	Continuous charge at 0.03 ~ 0.05C and 0~45℃
Discharging Method	h	≥ 5	Discharge at 0.2C(30mA) to a final voltage of 7.0V at 20±5℃
a.standard discharge(0.2C)			
b.maximum discharging current (0.5C)	min	≥ 80	Discharge at 0.5(75mA) to a final voltage of 6.3V at 20±5℃
c.discharge at 0±2℃ (0.2C)	h	≥ 4	Discharge at 0.2C(30mA) to a final voltage of 7.0V.
Overcharge	h	≥ 5	At 20±5℃,charge at 0.1C (15mA) for 48h, rest for 1~4h, then discharge at 0.2C(30mA) to a final voltage of 7.0 V.
Charge Retention	h	≥ 3.75	After standard charge, store for 28 days at 20±5℃, then discharge at 0.2C(30mA) to a final voltage of 7.0V
Cycle Life	cycle	≥ 500	IEC61951-2:2003(7.4.1.1)
Storage	%	≥ 80	IEC61951-2:2003(7.8)
Discharge Temperature	℃	-20~+45	
Dimension	a. Height	mm	48.5(-2)
	b. Width	mm	30.5(-2)
	c. Thick	mm	17.5(-2)
Weight (approx.)	g	46	

When the battery open-circuit voltage is below 8.75V before first time application or after long time storage, the battery shall be charged at 0.1C(15mA) for 16h or at 0.2C(30mA) for 8h, and rested for 1~4h, then discharged at 0.2C(30mA) to a final voltage of 7.0V. Recycle for 2~3 times, then charge the battery to restore capacity for using.