

Specification

Model: GD-MAK7.2 (Stick style)	Product: power tool battery
File No.: GD-MAK7.2 (Stick style) Ni-MH 2.0	version: 1.0
This specification is for GD- MAK7.2(Stick style)Ni-MH 2.0 power tool battery	
编制部门: 工程部	发送部门: <input type="checkbox"/> 品质部 <input type="checkbox"/> 生产部 <input checked="" type="checkbox"/> 市场部



审核		校对	石雄刚	编制	石雄刚	日期	2007-10-26
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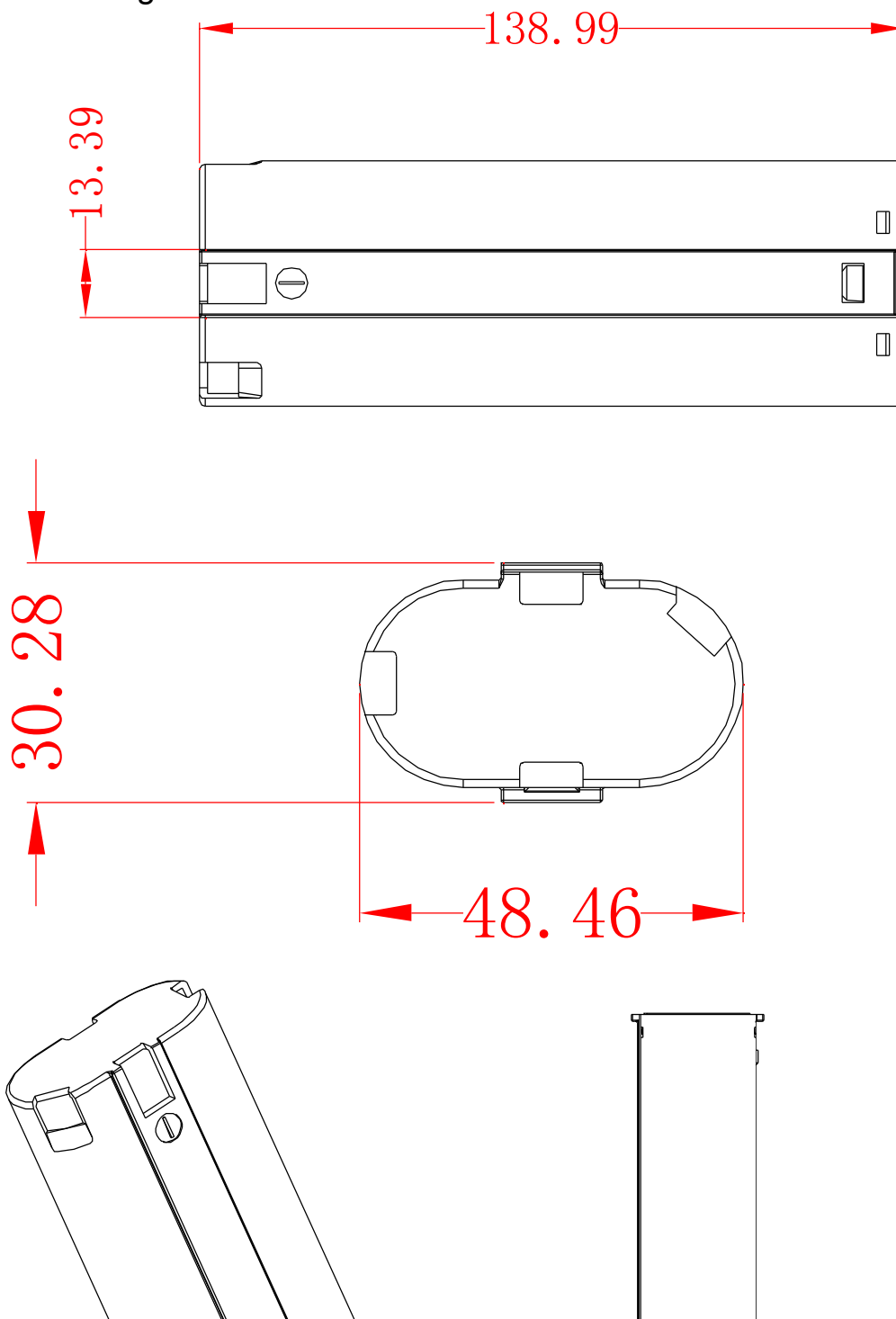
1. Technical Specifications

NO.	ITEM	SPECIFICATION	REMARK
1.	Cell type	Ni-MH SC	
2.	Nominal Voltage	7.2V	
3.	Nominal Capacity	2000mAh	
4.	Charge method	CC、CV、 $-\Delta V$, time control, temp control	
5.	Standard charge current	400mA	
6.	Normal charge current	800mA	
7.	Fast charge current	1000mA	
8.	Max. charge current	3A	
9.	Trickle charge	60~100mA	
10.	Internal resistance	$\leq 96m\Omega$	
11.	Standard discharge current	400mA	
12.	High rate discharge	10A (5C)	
13.	Max. Discharge current	20A (10C)	
14.	Ending discharge	6V	2A discharge
15.	voltage	4.8V	10A discharge
16.	Protection function	Temperature detection mode	
17.	Working Environment	Charge: 0~45°C Discharge: -10~+45°C Humidity: 85%	

2. Test methods and requirements

NO.	ITEM	CONDITION	STANDARDS
1.	Appearance	Eyesight check	No scratch, mechanical damage on the surface. No oxidation on metal parts. No deformation on plastic housing. .
2.	Normal capacity	Environment temperature $20 \pm 5^{\circ}\text{C}$ 1) Standard charge method: 400mA (0.2C5A) charge 7.5H, lay up for about 30 minutes. 2) Use 400mA (0.2C5A) constant current discharge to 6V.	Discharge capacity $\geq 90\%$ standard capacity
3.	Capacity storage performance	In environment temperature $20^{\circ}\text{C} \pm 5^{\circ}\text{C}$ condition, after charge, store for 30days , use 1C discharge to 6V.	$\geq 70\%$ standard capacity
4.	Delivery condition	Voltage tested before delivery	$\geq 7.2\text{V}$
5.	Vibration performance	Full charge in normal condition and do a 30 minutes vibration test at following conditions: Displacement: 0.38mm (10-30Hz); 0.19mm (30-55Hz) Frequency: 10-55Hz (1oct/min), Direction: X, Y Check appearance and function then.	No visible damage, leakage, smoking, fire, and explosion.

3. Product Drawing





4. Storage

- 1) Store in a cool and dry place at a $-10^{\circ}\text{C}\sim+35^{\circ}\text{C}$ environment.
- 2) Charge the battery every 3 months during storage to avoid over-discharge.

5. Cautions

- 1) Do not charge in a reversed way.
- 2) Do not burn or damage the battery or it will explode or release pernicious gases.
- 3) Do not use if the battery gets hot or leakage.
- 4) Do not use when the battery power is low to avoid over-discharge.
- 5) Do not put the battery into water.
- 6) Do not dispose, press, or punch the battery to avoid heating or fire.
- 7) Put the battery aside of children.
- 8) Short circuit, over-charge, or any proper charge may cause damage to the battery.
- 9) Use proper charger to charge the battery.