

MGN9071

PRODUCT SPECIFICATION

(Product Name: Nickel Cadmium rechargeable battery)

(Type) : D-SC1600BT-6H-T

(Project Number): ELD-210423-001

制作: PREPARED BY	审核: CHECKED BY	批准: APPROVED BY	业务确认: SALES CHECKED BY
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RATINGS 标称定额

IEC Size 国际标准尺寸: KRMU23/43

Nominal voltage 标称电压: 7.2V

Nominal capacity 标称容量: 1600 mAh at 0.2CmA

Typical weight 典型重量: 257g

Standard charge 标准充电: 160mA×15hours

Standard discharge 标准放电: 320mA to 6.0V

Trickle charge 涓流充电: 48 ~ 100mA

Discharge cut-off voltage in condition to trickle charge

涓流充电条件下放电终止电压: 6.0V

Temperature range for operation 工作温度:

Standard charge 标准充电: 0~+70°C

Trickle charge 涓流充电: 0~+70°C

Discharge 放电: -20~+70°C

Temperature range for storage 储存温度:

Within 6 months 六个月以内: -20~+30°C

Within a month 一个月以内: -20~+40°C

Within a week 七天以内: -20~+50°C

1. PERFORMANCE

1.1 TEST METHOD & PERFORMANCE 测试方法及性能要求

Test item 测试项目	Unit 单位	Spec 规格	Conditions 条件	Remarks 备注
Capacity 容量	mAh	≥ 1600	Standard charge/discharge 标准充电/标准放电	Up to 3 cycles are allowed 允许循环3次
Internal impedance(R) 内阻	mΩ	≤ 216	After fully charge (at 1000Hz) 充满电后用1KHz测试	Per Pack每组电池
High rate discharge 大电流放电	minute	≥ 108	Standard charge and discharge at 0.5CmA 标准充电后用0.5C电流放电	End voltage is 6.0V/pks 终止电压 6.0V/组
Safety device operation 安全阀启动测试	N/A	No disrupt nor burst 不爆炸不爆 裂	Forced discharge is conducted for 60minutes at 1C after pre- discharge at 0.2C to 0V 先将电池以0.2C放电到0V后再 用1C电流强行放电60分钟	Leakage of electrolyte and deformation are acceptable 允许电池有漏液和变形

1.2 Special clause for Emergency Lighting luminaries 适用于应急灯的特殊条款

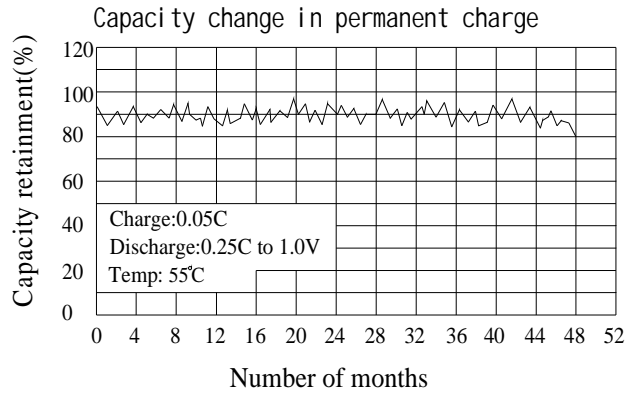
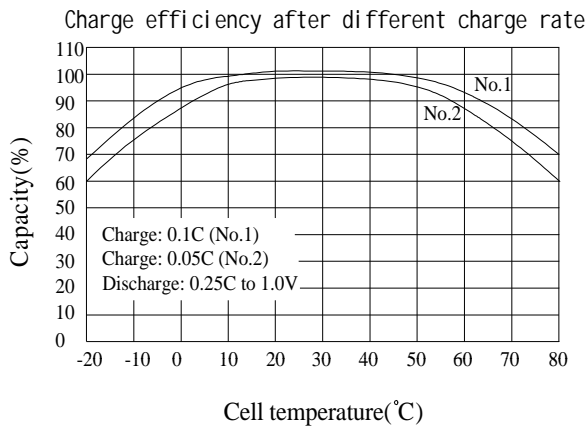
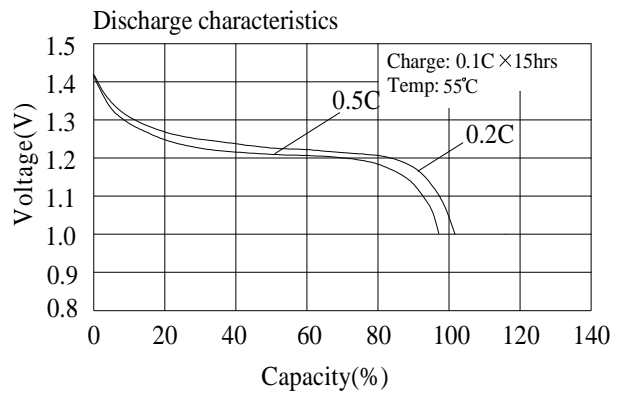
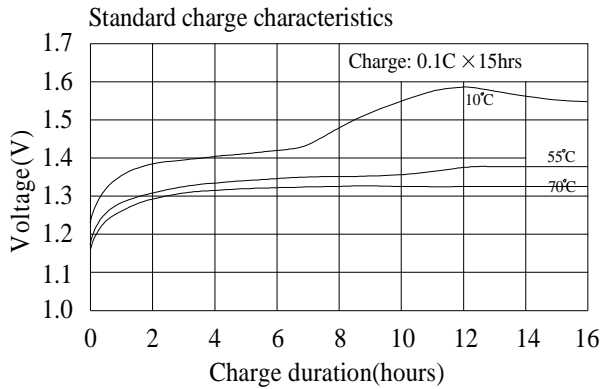
Item	Technical Data	International standards Clauses
cells intended for permanent charge at elevated temperature	Yes	EN60598-2-22 IEC 61-951-1 (ex IEC60285)§7.2 IEC 61-951-1 (ex IEC60285) §7.4.2.4 and 7.9
Expected operation life under following conditions: ·Maximum continuous temperature ·Maximum occasional temperature ·Permanent charging current ·Discharge frequency ·Minimum operating time	>4years +55°C +70°C(1 month) 80.0mA max 1 disch/month 1 hour at 0.6C 3 hours at 0.25C	IEC 60598.2.22 clause 22.6.8 IEC 60598.2.22 Annex A

2. PRECAUTION 注意事项

- 2.1 The cells shall be delivered in charged condition, before testing or using, the cells shall be correctly charged or discharged in accordance with this specification. 电池在交付时可能带电，在测试或使用前，请按此规格书要求的充放电方式进行作业。
- 2.2 Do not charge with more than our specified current. 不能用超过我们规定的电流进行充电。
- 2.3 Avoid throwing cells into a fire or attempting to disassemble them. As the electrolyte inside is strong alkaline and can damage skin and clothes. 不要将电池投入火中或试图解剖，因为电池内部有强碱，会伤害皮肤和衣服。
- 2.4 Avoid short-circuiting. It may cause leakage. 避免将电池短路，会产生漏液。
- 2.5 Keep away from children, if swallowed, contact a physician at once. 避免儿童接触电池，如不慎吞咽，请立即看医生。
- 2.6 Do not mix BST batteries with other battery brands or batteries of a different chemistry such as alkaline and zinc carbon. 不要将BST品牌电池与其它品牌电池或不同化学结构诸如碱性锌电池混用。
- 2.7 Batteries must come into use within one year of delivery. 电池必须在收到货的一年内投入使用。
- 2.8 Starting from the date of shipment, the warranty period is 12 months. 从出货日期开始，质保期为12个月。

3.DATA SHEET 数据表

Typical characteristics



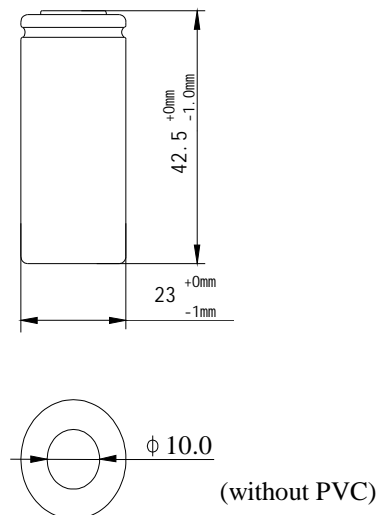
Specification

Nominal Voltage		1.2V	
Capacity (mAh)	Rate	0.2C	0.5C
	Nominal	1600	1440
	Typical	1632	1600
Internal Resistance (at 1KHz)		≤ 18 mΩ	
Charge	Standard	0.1C X 15hrs	
	Trickle	0.03C - 0.0625C	
Discharge cut-off voltage		1.0V	

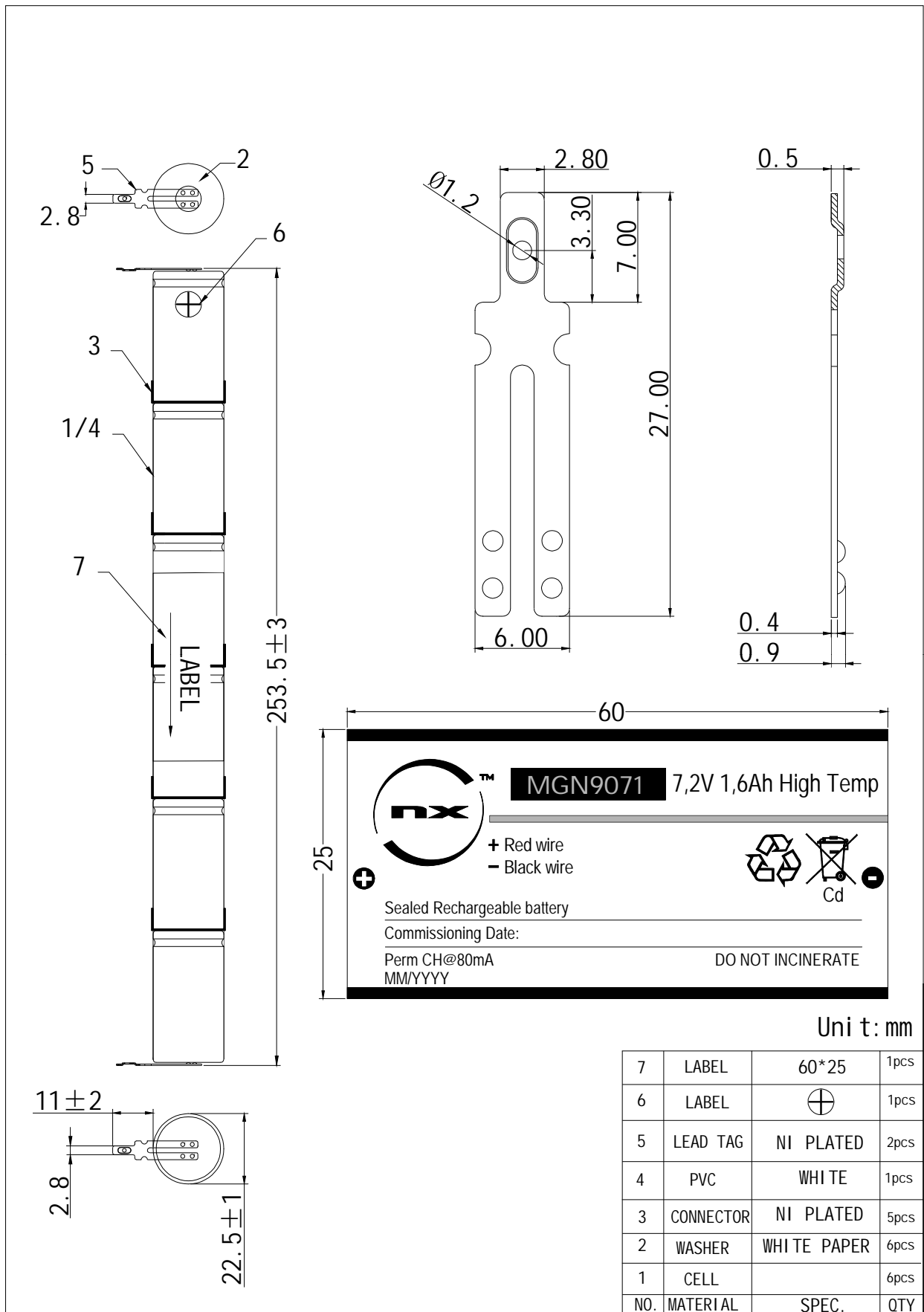
NOTE:

1. Nominal capacity rated at 0.2C
2. Other capacity are for reference
3. Weight and internal resistance are for reference

Dimension



4. DRAWING AND DIMENSION 图纸尺寸



Unit: mm

7	LABEL	60*25	1pcs
6	LABEL	⊕	1pcs
5	LEAD TAG	NI PLATED	2pcs
4	PVC	WHITE	1pcs
3	CONNECTOR	NI PLATED	5pcs
2	WASHER	WHITE PAPER	6pcs
1	CELL		6pcs
NO.	MATERIAL	SPEC.	QTY