

# APPROVAL SHEET

## BATTERY DATA 电池信息

CUSTOMER NO.: C45

BST MODEL NO.: D-SC1800BT\*4H-JEH

CUSTOMER APPROVED P/N: 275606

SPECIFICATION NO.: A201304054

## RATINGS 标称定额

IEC Size 国际标准尺寸: KRMU23/43

Nominal voltage 标称电压: 4.8V

Nominal capacity 标称容量: 1800mAh at 0.2CmA

Typical weight 典型重量: 200g

Standard charge 标准充电: 180mA×15hours

Standard discharge 标准放电: 360mA to 4.0V

Trickle charge 涓流充电: 54~112.5mA

Discharge cut-off voltage in condition to trickle charge

涓流充电条件下放电终止电压: 4.0V

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



Please sign and return one copy to us (with company chop) 请回签并盖章

## ISSUE Management

PREPARED BY 制作:

CHECKED BY 审核:

APPROVED BY 批准:

**Add:** No.37 Xinlong Road, Dakang Village, Henggang Town, Longgang District, Shenzhen City.

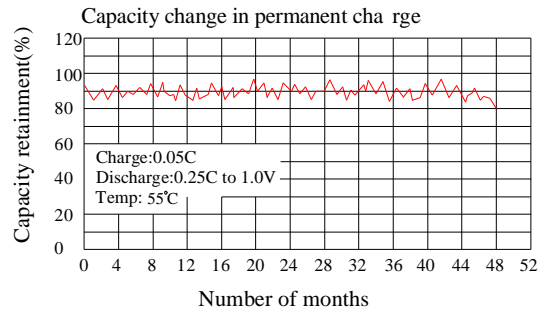
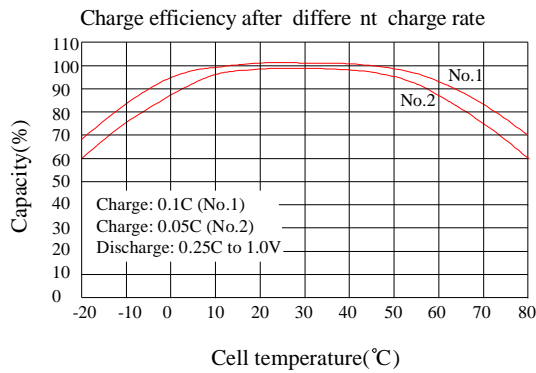
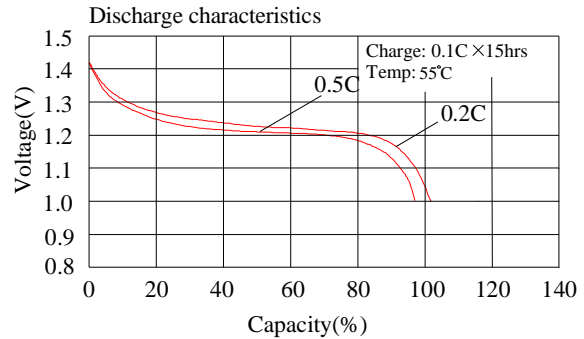
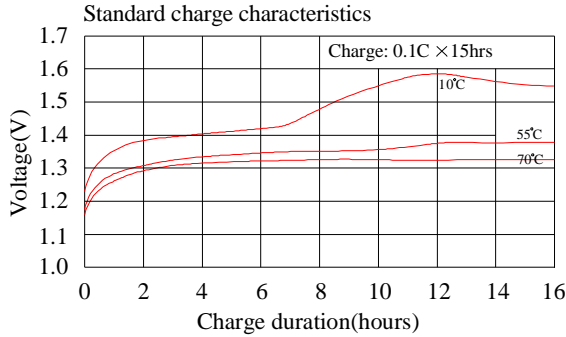
深圳市龙岗区横岗街道大康社区新龙路 37 号

**Tel:** 86-755-84260300 **Fax:** 86-755-84260306

**Website:** <http://www.bstbattery.com> **E-mail:** [sales@bstbattery.com](mailto:sales@bstbattery.com)

# 1. DATA SHEET 数据表

## Typical characteristics

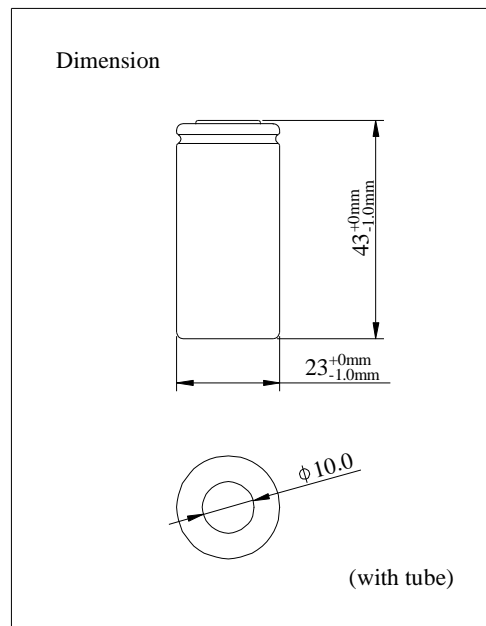


## Specification

Nominal Voltage		1.2V	
Capacity (mAh)	Rate	0.2C	0.5C
	Nominal	1800	1620
	Typical	1850	1800
Internal Resistance (at 1KHz)		≤ 18mΩ	
Charge	Standard	0.1C × 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



## 2. PERFORMANCE 性能测试

### 2.1 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	$\geq 1800$	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	m $\Omega$	$\leq 216$	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	$\geq 108$	Standard charge and discharge at 0.5CmA 标准充电后用 0.5C 电 流放电	End voltage is 4.0V/pks 终止电压 4.0V/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

### 2.2 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	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 +65°C(1 month) 90mA 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

## 3. PRECAUTION 注意事项

- 3.1 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。
- 3.2 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。
- 3.3 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。
- 3.4 Avoid short-circuiting. It may cause leakage. 避免将电池短路，会产生漏液。
- 3.5 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。
- 3.6 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。
- 3.7 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。
- 3.8 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。

4. DIMENSION AND DRAWING 图纸尺寸

**BST POWER(SHENZHEN)LIMITED**

Document: C87-006 D-SC1800BT\*4H-JEH

250.7 mm

Red

Black

172 ± 2mm

MAX. 23.5

5

2/11

6

Black

7

4/9

10

Label

8

70

**ELUBAT** REF:275 606

sealed rechargeable High Temperature NiCd Battery 4.8V 1.8Ah

Permanent charge RT mA

4 cells type: KRNT 2048

Part No: D-SC1800BT\*4-JEH

Production date: 1 2 3 4 5 6 7 8 9 10 11 12

2013 2014 2015 2016 2017 2018 2019

RoHS

RECYCLE

MSD

Made in the P.R.C.

11	LABEL	spiring 54 °C swiss	1pcs
10	LABEL		1pcs
9	PVC	WHI TE	1pcs
8	BOTTOM WASHER	WHI TE	2pcs
7	TUBE	Transparent	1pcs
6	PLUG	JST-EH-2P UL1430 20AWG R=265 B=415	1pcs
5	LEAD TAB	NI PLATED	2pcs
4	TUBE	Peper TUBE	1pcs
3	CONNECTOR	NI PLATED	3pcs
2	TOP WASHER	WHI TE	4pcs
1	CELL	D-SC1800BT	4pcs
NO.	ITEM	SPECIFICATION	QTY

APPROVED

CHECKED

DRAWN