

# 承 认 书

(APPROVAL SPECIFICATION)

客户代码 (Customer Code) : C00272

规格型号 (Specifications) : H-7/5SC4000BT-2H-T

承认日期 (Approved date) : 2020/10/10

供应商名称 (Supplier name) : 深圳市电科电源股份有限公司

项目编号/版本 (Project Number/Version) : SJKF202003006 A/1

## 签 名 盖 章 (Signature and Chop)

供应商承认 Supplier Approval			客户承认 Customer Approval		
工 程 师 Engineer	审 核 Checked by	批 准 Approved by	我们确认产品符合规格书内容, 会按规格书要求使用。 We confirm the product BST provided fulfil its Specification, and will operate according to the requirements agreed here.		
			工 程 师 Engineer	审 核 Checked by	批 准 Approved by
许新星 2020.10.10	/	[Signature] 10.10	盖 章 签 署 Signed and sealed		
			日 期 Date		

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# 产 品 规 格 书

## PRODUCT SPECIFICATION

产 品 名 称: 镍氢二次电池

(Product Name: Nickel-Metal Hydride rechargeable battery)



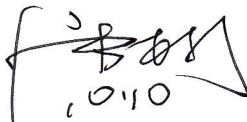
规格型号(Type): H-7/5SC4000BT-2H-T

项目编号(Project Number): SJKF202003006

客户代码(Customer Code): C00272

客户产品料号(CUSTOMER APPROVED P/N): 96374879

成品料号(PRODUCT P/N): \_\_\_\_\_

制作: PREPARED BY	审核: CHECKED BY	批准: APPROVED BY	业务确认: SALES CHECKED BY
 2020.10.10		 2020.10.10	

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## 1. DATASHEET数据表:

 1.1 Nominal voltage 标称电压: 2.4V

 1.2 Typical weight 典型重量: 144.0g

 1.3 Standard charge 标准充电: 400mA×15hours

 1.4 Standard discharge 标准放电: 800mA to 2.0V

 1.5 Trickle charge 涓流充电: 80 ~ 120mA

 1.6 Discharge cut-off voltage in condition of trickle charge: 涓流充电条件下放电终止电压: 1.70V

 1.7 Temperature range for operation 工作温度: 0~+70℃

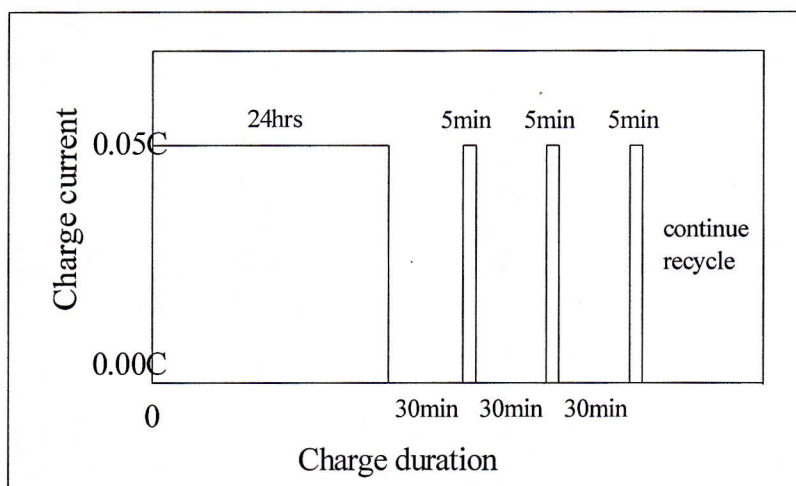
 1.8 Temperature range for storage 储存温度: Within 6 months六个月以内: -20~+30℃

 Within a month一个月以内: -20~+40℃

 Within a week七天以内: -20~+50℃

## 1.9 Recommended charge method 推荐充电方法

Sheet 1



## 2. PERFORMANCE性能测试

## 2.1 TEST METHOD &amp; 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	$\geq 4000$	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	$\leq 80$	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 2.0V/pks 终止电压 2.0V/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
Design lifetime under following conditions:	>4years	EN60598-2-22 IEC 61-951-2
·Maximum continuous temperature ·Maximum occasional temperature ·Minimum temperature ·Preconditioning 24h charge ·Pulse charging ·Minimum operating time ·Cut off voltage ·Discharge frequency	+50°C +65°C +5°C 200.0mA Ref. sheet 1 1 hour at 0.6C 3 hours at 0.25C 1.70V once/quarter	Shorter than 1month  Pulse charging after preconditioning 24h  charge

## 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 Battery storage: when the battery stored for six months (form delivery to the lamp working) at -20~30°C, it must be charged and discharged one cycle; and then charge the battery to 30%~50% capacity, the battery should be stored for another six months. 电池储存: 电池在-20~30°C环境中储存半年(从出货时间算起到灯正式使用前)，必须充放电一次；然后再充电30-50%之后再储存半年使用。

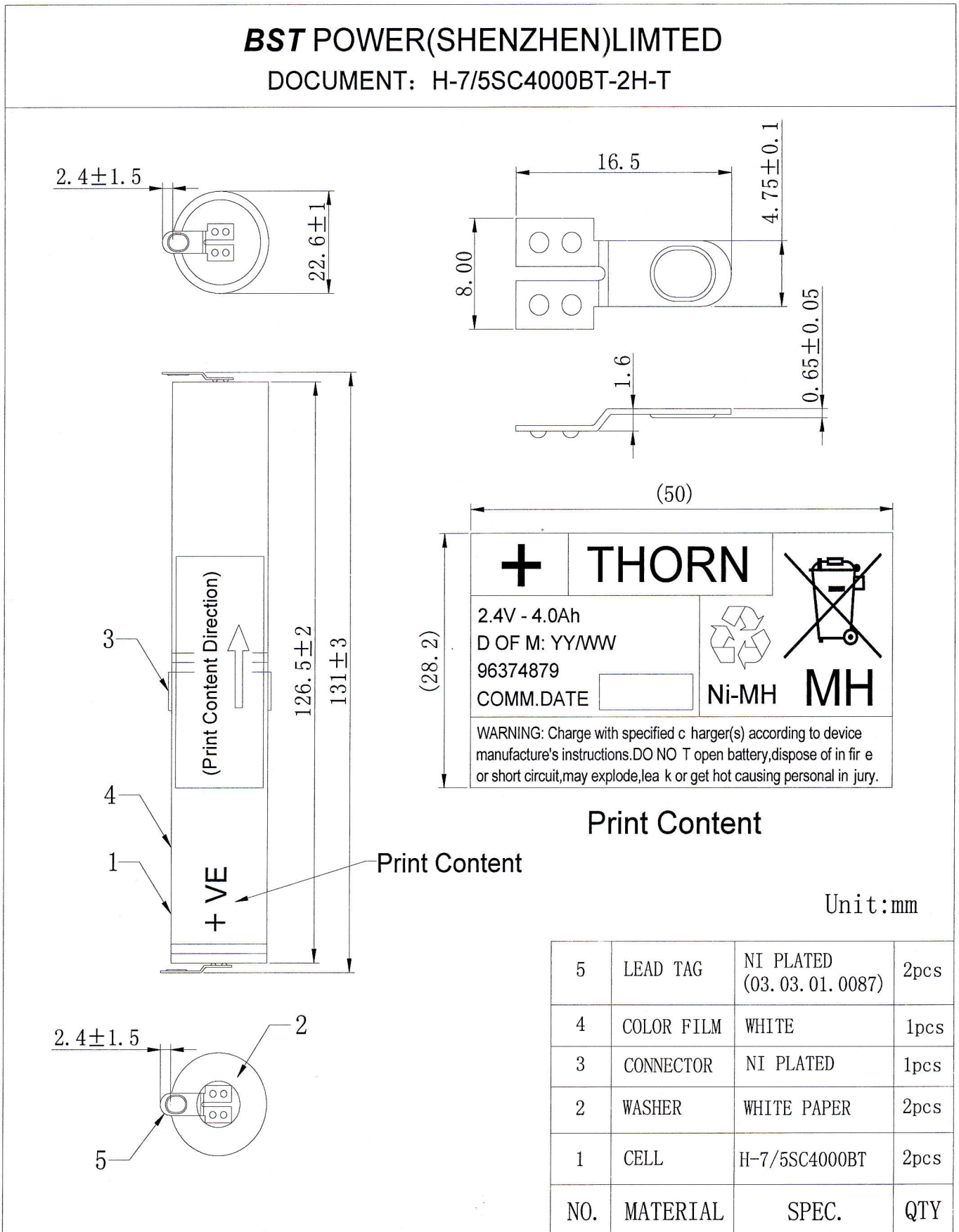
3.2.1 Charge and discharge method: charge the battery for 24h by the lamp and discharge until the lamp turnoff, Or charge the battery at 0.2C for 5.5h and discharge to 1.0V/CELL at 0.5C. 充放电方法: 用灯充电24小时，再用灯放电到灯灭。或用0.2C电流充电5.5小时，再用0.5C放电到1.0V/CELL。

3.2.2 Charge 30-50% method: charge the battery for 8h by the lamp or charge the battery at 0.2C for 2~2.5h. 再充电30~50%方法: 用灯充电8小时，或用0.2C电流充电2~2.5小时。

3.3 Products(lamp) storage before using 产品使用前储存: Do not connect the battery to the PCB before products(lamp) working or the products(lamp) is in delivery, the battery must be stored independently. Connect the battery to PCB when the products(lamp) start working 产品(灯)出货时，在正式使用前: 电池不要接到线路板，电池必须单独开路储存。在灯要正式使用之前才将电池连接到灯上。

3.4 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. DRAWING AND DIMENSION 图纸尺寸



## 5. REVISE HISTORY 修订历史

修订历史Revise History		
日期 (Date)	版本 (Version)	修改内容 (Content)
2020/3/18	A/0	首版发行 First Edition
2020/10/10	A/1	客户要求修改PN号 Customer requests to modify PN number.