

产品规格书 PRODUCT SPECIFICATION

可充电钠离子电池 Rechargeable Sodium Ion Battery

型号 Type: SIB 50160118-75Ah

产品设计准备 Prepared by RD	产品设计审批 Approved by RD	工艺工程审批 Approved by PE	品质审批 Approved by QA	销售审批 Approved by MS

客户确认 Client Approval	签名 Signature:	公司印章 Company Stamp:
	日期 Date:	
	客户代码 Company Code:	

客户要求 Customer Inquiry

型号 Model: SIB 50160118-75Ah

客户根据终端产品使用需求提出对电芯的需求并与阿西亚沟通, 如客户有一些特别的应用或者操作条件不同于此文件中所描述的, 阿西亚可以根据客户的特别要求进行产品的设计和生产。

The Customer is requested to write down your information and contact Asiar in advance, if and when the Customer needs applications or operating conditions other than those described in this document. Asiar could design and build such products according to your special request.

编号 No.	特殊要求 Special Request	标准 Criteria
1		
2		
3		
4		
5		

客户代码 Company code: _____ 签字 Signature: _____ 日期 Date: _____

目录

1. 适用范围 Scope	7
2. 产品性能指标 Cell Performance	7
2.1 概要 General.....	7
2.2 充电模式/参数 Charging mode/Parameters.....	8
2.3 放电模式/参数 Discharging mode/Parameters.....	8
2.4 倍率性能 Discharge performances at different discharge rates	9
2.5 不同温度放电性能 Discharge performances of different temperature	9
3. 存储和循环性能 Storage and Cycle Performance	10
4. 安全与可靠性 Safety and Reliability	10
5. 应用条件 Application Conditions	11
6. 安全防范 Safety Precautions	12
7. 免责声明 Disclaimer	13
8. 风险警告 Warning and risks	14
9. 电芯尺寸 Mechanical Drawing	15

术语定义 Definition and Note

术语 Term	定义 Definition
产品 Product	本规格书中的“产品”是指阿西亚生产的 75Ah、3.0V 可充电钠离子电池。 This product specification is just applied to the 3.0V/75Ah rechargeable sodium ion cell produced by Asiar .
客户 Custom	指《阿西亚产品销售合同》中的买方。 The buyer in the sale contract.
阿西亚 Asia	指《阿西亚产品销售合同》中的卖方 The seller in the sale contract.
环境温度 Ambient temperature	电池所处的周围环境温度。 The temperature of the air surrounding a cell.
电池管理系统 Battery manager system	客户用于监测和记录产品在整个服务期限内的运行参数的一种有效的追踪和控制系统。其追踪和记录的参数包括但不限于电压、电流、温度等，以控制产品的运行并确保产品运行环境及运行条件符合本规格书的规定。 A tracking and controlling device integrating with hardware and software, which is used to monitor and record operating data in battery service life. The parameters consist of voltage, current, temperature and so on. The device can control the operating state of battery and keep the working surrounding and condition meeting the requirements of this specification.
电芯温度 Cell temperature	由接入电池的温度传感器测量的电芯的温度。 Surface temperature of a cell measured by temperature sensor.
新电池状态 Fresh cell status	指电池下线日期开始算起 7 天范围内的状态。 Within 7 days after being off-line.
充/放电倍率 C-Rate	充/放电功率与电池额定充/放电功率的比值。 The ratio of charge/discharge power to rated charge/discharge power
循环 Cycle	电池按规定的充放电制度充放一次为一个循环。 One sequence of charge and discharge as prescribed.
生产日期 Manufacture date	电池的制造日期。每个电池的顶盖激光打码处标识了明确的制造日期。 The date when the cell was manufactured, which is clearly printed by laser on the top cap.
开路电压 Open-current voltage	没有接入任何负载和电路时测得的电池的电压。 The voltage between the battery terminals with no load applied.
额定功率 Rated power	在本规格书试验条件和试验方法下， 电池可持续工作一定时间的功率， 包括额定充电功率 P_{rc} 、 额定放电功率 P_{rd} 。 Under the test conditions and test methods in this specification, the battery can work continuously for a certain period of time, including rated charge power (P_{rc}) ,

	rated discharge power (P_{rd})
能量效率 Energy efficiency	在本规格书试验条件和试验方法下, 电池的放电能量与充电能量的比值, 用百分数表示。 Under the test conditions and test methods in this specification, the ratio of discharge energy to charge energy of the battery is expressed as a percentage.
标称容量 Nominal capacity	电池的标称容量是指在一定的放电条件下, 电池应该放出的最小容量。 The nominal capacity of battery is the minimum capacity under certain discharge conditions.
额定充/放电能量 Rated charging/ discharging energy	按照本规格书所列的充/放电条件下, 初始化充/放电的电池以额定充/放电功率充/放电至终止电压时的充/放电能量。 Under the charge/discharge conditions in this specification, the charging/discharging energy of the battery is charged/discharged from nominal charging/discharging power to the termination voltage.
初始充/放电能量 Initial charging/ discharging energy	按照本规格书所列的充/放电条件下所测得的充/放电能量, 循环 3 次, 取平均值。 The energy measured according to the charge and discharge procedure listed in this specification. The cell should be cycled 3 times, and select the averaged value as the initial capacity.
能量恢复率 Recovery rate of energy	电池储存后, 在本规格书试验条件和试验方法下测得的充电能量、放电能量分别与初始充电能量、初始放电能量的比值, 用百分数表示。 After storage, the ratio of the charging energy and discharging energy of the battery to the initial charging energy and initial discharging energy is expressed as a percentage under the test conditions and test methods in this specification.
供货协议 Supplier agreement	阿西亚和客户共同签订的有关本规格书产品的交易条款。 The terms of the transaction between Asiar and the customer regarding the products of this specification.
荷电状态 (SOC) State of charge	任意状态下, 电池荷电量与电池最大荷电能力的比值。如: 若将容量为 75Ah 的状态视为 100% SOC, 则容量为 0Ah 时, SOC 为 0%。 An expression of the present battery capacity as a percentage of maximum capacity. For example, if the SOC is defined as 100% when the remaining capacity is 75 Ah, the state of 0 Ah is regarded as 0% SOC.
温升 Temperature rising	规格书规定的条件下, 充电或者放电前后电芯表面温度差。 The surface temperature difference between the cells before and after charging or discharging.
测量单位 Measurement unit	“V” (Volt) 伏特 (V), 电压单位 voltage unit “A” (Ampere) 安培 (A), 电流单位 current unit “W” (Watt) 瓦特 (W), 功率单位 power unit “Ah” (Ampere-hour) 安培-小时 (Ah), 容量单位 capacity unit

