

产品规格书

Product Specification

版本/Version: A 1.1

产品代号: SV1-5S1P

Product Model: SV1-5S1P

产品名称: 吸尘器电池包

Product Name: Pack of vacuum cleaner

美的清洁电器股份有限公司

Midea cleaner appliances Co., Ltd.

SV1-5S1P Pack Product Specification

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SV1-5S1P Pack Product Specification

1 产品概述/Product Overview

本规格书用于规范清洁电器事业部吸尘器公司电池包的功能、性能、电气和检验方面的要求，适用于的产品型号是SV1-5S1P Pack。其具体的作用如下：

1. 产品设计、物料选择的依据；
2. 供应商进行产品生产和检验的依据；
3. 品质部门验货、退货的依据。

This specification is used to standardize the function, performance, electrical and inspection requirements of the battery Pack. The model is SV1-5S1P Pack. This specification used for:

1. Basis of product design and material selection;
2. Basis of product production and inspection by suppliers;
3. The basis for quality department inspection.

2 基本性能/Function

All the dimensions marked CC are Nilfisk's critical characteristics

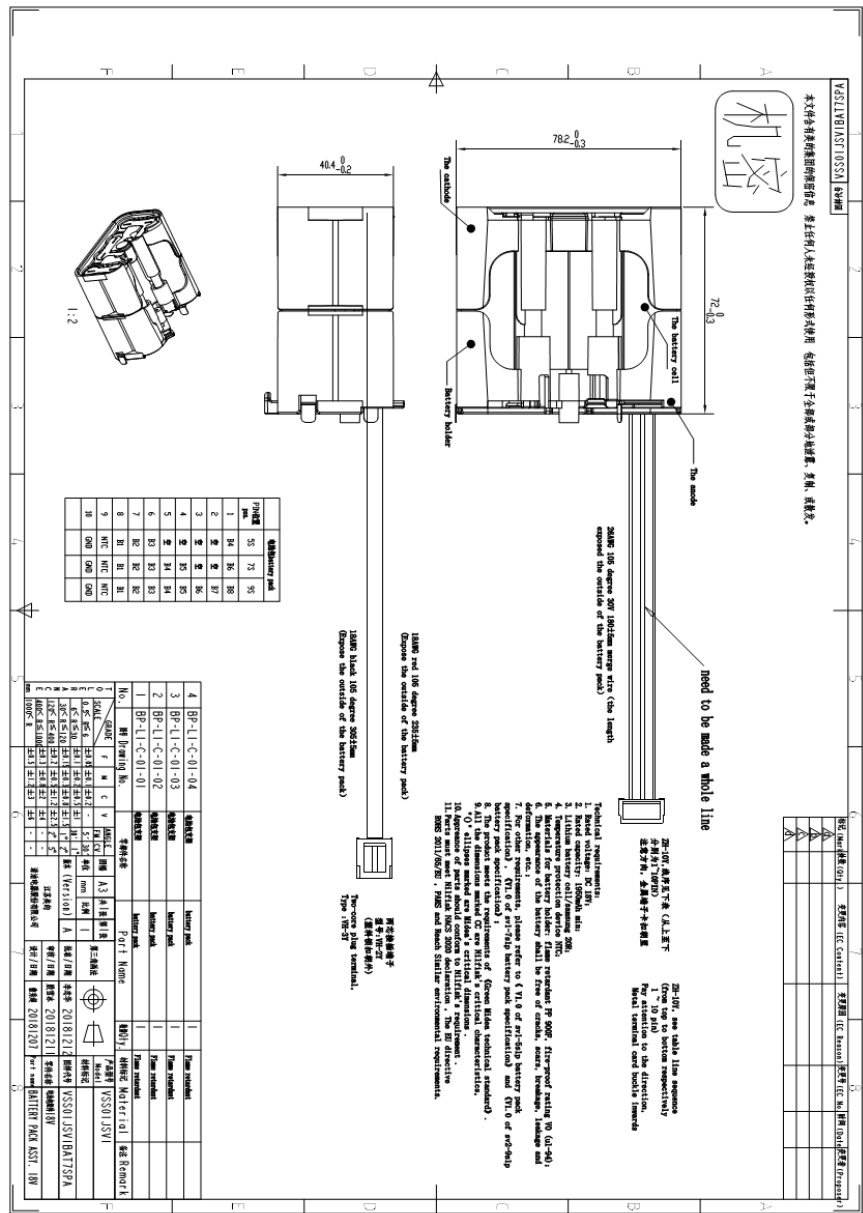
序号 Item	功能 Function	参数 parameters	备注 remarks
1	额定容量 Nominal capacity	$\geq 1950\text{mAh}$	参照电芯规格书： 充电：0.5C恒流充电至4.2V/cell，恒压至0.02C； 放电：0.2C恒流放电至2.75V/cell Reference cell specification: Charging: 0.5C CC to 4.2V/cell, then CV to 0.02C; Discharge: 0.2C CC to 2.75V/cell.
2	额定电压 Rated voltage	18V	3.6V/cell
3	放电截止电压 Discharge cut-off voltage	13V	2.6V/cell，参照保护板 2.6V/cell, PCBA control
4	初始内阻 Initial internal impedance	$\leq 200\text{m}\Omega$	电芯内阻35*5，焊接及连接片阻抗5*5 Cell:35*5, Welding and connecting plate:5*5
5	NTC	$10\text{K}\Omega \pm 1\% (25^\circ\text{C})$ B=3435 $\pm 1\%$	
6	存储温度 Storage temperature	1个月/1 month -20~60℃	参照电芯规格书 Refer to the cell specification
		3个月/3 months -20~45℃	
		1年/1 year -20~23℃	
7	组包匹配要求 Matching requirements	1、开路电压差异不超过10mV； Open voltage difference $\leq 10\text{mV}$ ； 2、内阻差异不超过3mΩ； Internal impedance difference $\leq 3\text{m}\Omega$ ； 3、容量差异不超过30mAh；	电压、内阻全检匹配 The voltage and internal impedance are all checked and matched.

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		Capacity difference $\leq 30\text{mAh}$; 4、限用同批次电芯 Cells must be same batch in one pack	
8	出厂荷电电压 Nominal Voltage	17.2V~18.2V	参照电芯规格书, 3.44V~3.64V/cell Refer to the cell specification, 3.44V~3.64V/cell
9	循环寿命 Cycle life	300T 70%	1A恒流充电至4.175V/cell, 再恒流充电至150mA, 10A恒流放电至2.6V/cell, 循环300T后容量 $\geq 70\%$ 初始容量 Charging: 1A CC to 4.175V/cell, then CV to 150mA, Discharging: 10A CC to 2.6V/cell After 300 cycles, $\geq 70\%$ initial capacity

3 外形尺寸及接口定义/Dimensions and connector definitions

3.1 外形尺寸/Dimensions



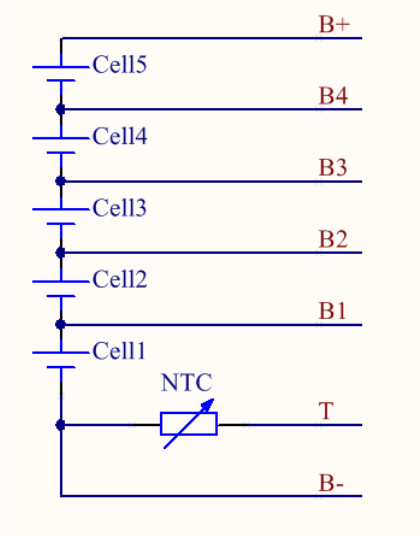
3.2 接口定义/connector definitions

1、正负极接口/battery pack connector

引脚/PIN	名称/name	定义/definitions	说明/remarks
1	B+	电池包正极/ Battery pack anode	
2	B-	电池包负极/ Battery pack cathode	

2、信号线接口/signal wires connector

引脚/PIN	名称/name	定义/definition	说明/remark
1	B4	Cell4 +	
2	B3	Cell3 +	
3	B2	Cell2 +	
4	B1	Cell1 +	
5	T	NTC	
6	B-	电池包负极/ Battery pack cathode	



END