

技术参数 **Technical Parameter**

使用环境 **Working condition**

项目 Item	单位 Unit	最小值 Min.	典型值 Typical value	最大值 Max.	测试条件 Test Condition
充电温度 Charging Temperature	°C	-20		55	
放电温度 Discharge Temperature	°C	-20		60	
储存温度 Storage Temperature	°C	-10		50	小于1月 < 1 month, 80%RH MAX 小于1年 < 1year, 75%RH MAX
相对湿度 Relative Humidity	%	0		95	

电芯参数 **Parameter of cell**

标称电压 Rated voltage	类型 Type	厂家 Supplier	型号 Model	内阻 Inner Resistance	标称容量 Nominal Capacity	额定容量 Rated capacity
3.2V	Lithium-ion Battery Square lithium-ion Battery pack		IFP17/119/133(27)EA	0.6~1.5mΩ	2700mAh (0.5C)	2700mAh (0.5C)

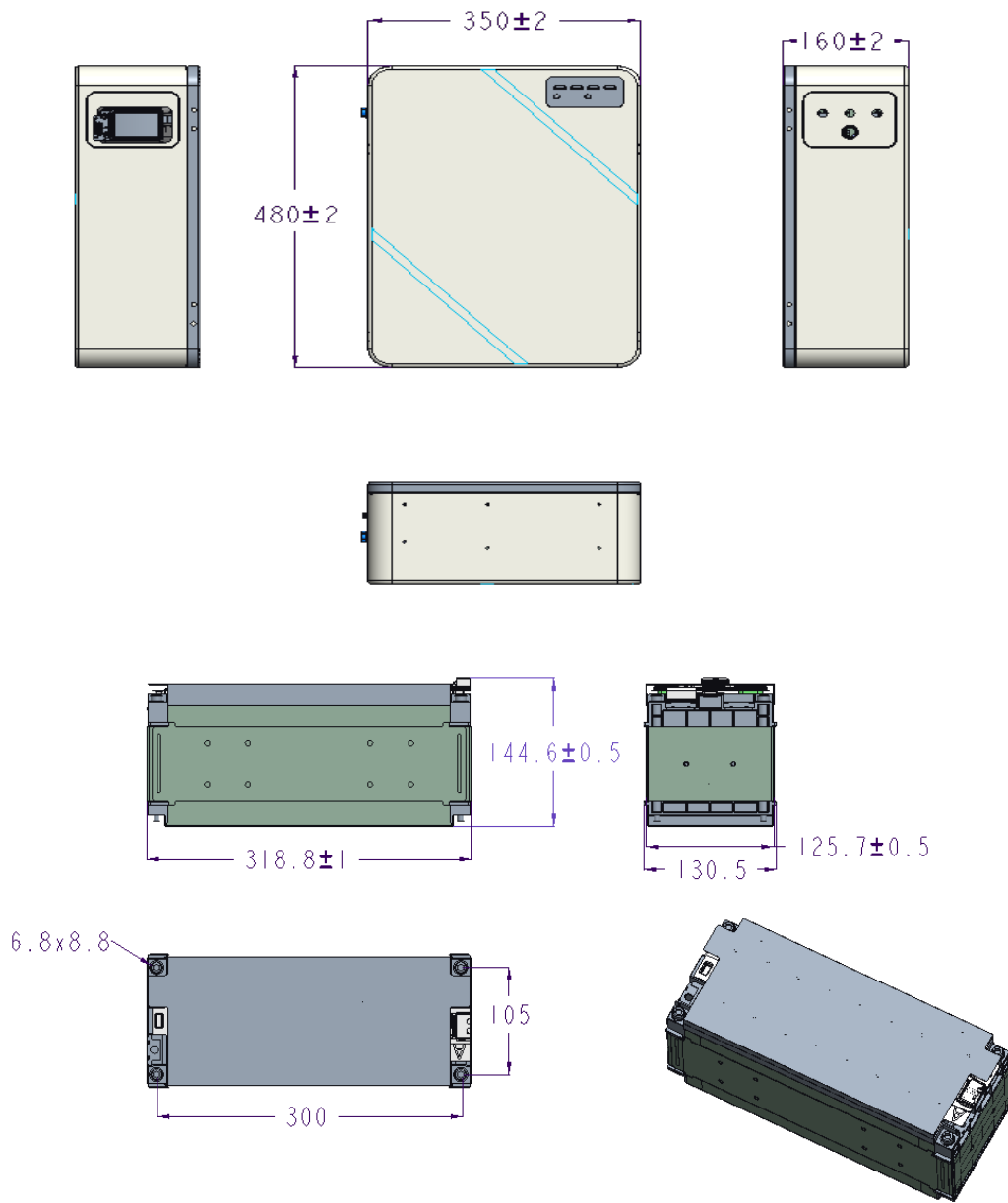
主要参数 Main Parameter

序号.No	项目Items	规格Specifications	备注 Remarks
1	类型 Type	Square lithium-ion Battery pack(Not removable)方形锂离子 电池组 (不可拆卸)	
2	标称容量 Nominal capacity	2700mAh	0.5C
3	额定容量 Rated Capacity	2700mAh	0.5C
4	标称电压 Nominal Voltage	3.2V	
5	内阻 Internal Impedance	0.6~1.5mΩ	以实物为准
6	充电方式 Charge Method	CC/CV	
7	充电限制电压 Limited Charging Voltage	3.65V	
8	放电截止电压 Discharge Cut-off Voltage	2.5V (>0°C) , 2.0V (≤0°C)	
9	标准充电电流 Standard charging current	0.5C	1350mA/h
10	最大充电电流 Maximum charging current	1C	2700mA/h
11	标准放电电流 Standard discharging current	0.5C	1350mA/h
12	最大持续放电电流 Maximum discharging current	1C	2700mA/h
13	工作温度范围 Operating temperature range	Charging Temperature: 0°C~55°C Discharging Temperature: - 20°C~60°C	
14	常温循环寿命 Normal temperature cycle life	≥4000 (80% rated capacity)	(25±2) °C, 100%DOD,0.5C/1 C
15	单体电池重量 Single cell weight	565g±15g	
16	外观尺寸 Dimension (H*W*D)	16.9±0.3*119.0±0.2*132.8±0.3	
17	电芯自由状态厚度 Cell free state thicknes	17.0±0.4mm	
18	成组的初始预紧力 Initial preload of the group	500~5000	
19	常温月自放电率 Monthly self-discharge rate at room temperature	3%/Month	(25±2) °C , ~50%SOC
20	高温月自放率 High temperature monthly self- discharge rate	5%/Month	(45±2) °C , ~50%SOC

电池组参数 Battery pack parameters

基本特性参数		备注
标称电压/容量 Nominal voltage/capacity	51.2V/54Ah	/
BMS Model	4850-1103-1CE-XK04-16S	/
最大持续充电电流 Maximum continuous charging current	30A	25°C
最高充电电压 Maximum charging voltage	57.6V	单节过充3.65V
最大持续放电电流 Maximum continuous discharge current	20A	
放电保护电流 Discharge protection current	25A	25°C
外观尺寸 Dimension	480x mm 350 mm x160 mm	/
电池组重量 Battery pack weight	29.6±3% kg	
使用环境温度 Use ambient temperature	充电 charge	-20 ~ 55°C
	放电 discharge	-20 ~ 60°C
存储温度 Storage temperature	-10 ~ 50°C	每2个月补电至60 ~ 80% SOC Replenishment of electricity every 2 months 60 ~ 80% SOC
电池组质保期 Battery pack warranty period	≥4000	剩余80%容量, 25°C, 0.5C充电1C放电 80% capacity remaining, 25°C 0.5C charge 1C discharge
电池容量 Battery capacity	≥54Ah	出厂容量
通讯方式 Communication method	CAN通讯 CAN communication	
防水等级 Waterproof rating	IP65	
外壳材质 Housing material	钣金 Sheet metal	


电池尺寸图 Chart of finished battery



6. 标签图 Label Chart

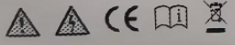
Rechargeable Li-ion Battery Pack

Model:	BDB-2.76L
Battery Designation:	IFPP/17/119/133/[2P16S]M-20+50/95
Nominal Voltage/Capacity:	51.2V/54Ah
Energy:	2760Wh
Operation Voltage Range:	40V-57.6V
Charging Maximum Current:	30A
Discharging Maximum Current:	20A
Charging Temperature:	-20°C~55°C
Discharging Temperature:	-20°C~60°C
Enclosure Protection Rate:	IP 65
Dimension (H*W*D):	480*350*160mm
Recommend Charge Current	0.3C


SN: 
BCJHCJ2G6F6621000031

To communicate any inaccuracies or omissions in the manual, please send an email to: info@northernep.com

ELECTRONIC DEVICE: DO NOT THROW AWAY

 Proper disposal of batteries is required. Refer to your local codes for disposal requirements.

Warning: Read the entire user manual before installing or using Puredrive LFP Battery. Failure to do so or to follow any of the instructions or warnings in this document can result in electrical shock, serious injury, or death, or can damage Puredrive Battery, potentially rendering it inoperable.

Northern Electric Power Technology Co., Ltd 
 Add: Kangzhen Building, No. 18,
 Juyang Road, Suzhou Industrial Park
 215123, Suzhou, P.R. China