

产品规格书

Product Specification

产品名称 (PN) : 储能电源 B2500D 系列

产品编号 (PCBA version) : _____

版本 (version) : V1.0

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S/N 序号	Version 版本	Revised content 更改内容	Confirmed by 确认	Verified by 审核
1	V1.0		向阳	伍毅

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一、应用场景及价值

储能应用场景多样，在不同场景下，储能在市场上体现的价值也有所不同。

There are various application scenes of energy storage. Under different scene, the value of energy storage in the market is also different.

1.6 用户侧 User-side

1.6.1 电力自发自用。光伏在白天发电，提高自发自用水平，降低用电成本。

Spontaneous self use of electricity. Photovoltaic during the day, improve the level of spontaneous self use and reduce the cost of electricity.

1.6.2 产品容量为 2KWh,能量存储大;

The product capacity is 2KWh, and the energy storage is large.

1.6.4 安装方便，5 分钟便可安装好，即插即用;

Easy to install, 5 minutes can be installed, plug and play;

1.6.5 蓝牙&WIFI 一体，便于实时观察产品数据;

Bluetooth &WIFI integrated, easy to observe product data in real time.

二、功能特点 Functional Features

2.1 磷酸铁锂电池，能量密度和功率密度较高，安全性能好。

Li-iron phosphate battery, Higher energy density and power density, safer.

2.2 可进行设备扩容。

Expanding equipment capacity.

2.3 全面的保护：过充/过放、过压/过流、过载、欠压、短路、过温。

Comprehensive protection: over-charge/over-discharge, over-voltage/over-current, overload, under-voltage, short circuit, over-temperature.

2.4 工作温度：0℃~50℃；储存湿度：5%~95%RH 无冷凝现象（无结露）；海拔高度≤2000 米。

Operating temperature: 0℃~50℃; Humidity: 5%-95%RH no condensation (no condensation); Altitude ≤2000 meters, natural cooling.

三、产品说明 Product Description

3.1 产品概要 Product General Data:

序号 Item	基本参数 Basic Parameters	型号 Model
		B2500D
1	防护标准 International Protection	IP65 (Outdoor)
2	冷却方式 Cooling Strategy	Natural Convection(自然对流)
3	待机功率 Standby Power	<2W (Work) /< 5mW (Sleep)
4	产品尺寸(有底座) Dimension (with base)	350*290*160mm(L*W*H)
5	产品重量 Weight	20kg
6	海拔高度 Altitude	≤2000m
7	工作温度 Operating Temperature	0°C~50°C
8	存储湿度 Storage Humidity	5%~95%

3.2 产品特征 Product Features:

序号 Item	基本参数 Basic Parameters	型号 Model
		B2500D
1	寿命 Lifespan	10+ Years (55°C/77°F)
2	认证 Certificate	EN 62109-1/IEC 62109-1
3	电磁兼容性 EMC	EN61000-6-1/-2/-3/-4

四、性能&参数 Performance & Parameters

4.1 MPPT 输入 MPPT Input:

1	最大输入功率 Max. Input Power	500W*2
2	最大输入电流 Max. Input Current	13.5*2 A
3	PV 最大电压 Max. PV Voltage	59V
4	MPPT 范围/标称 MPPT Range/Nominal	12-59V

5	MPPT 串数 MPPT Tracker/Strings	2
6	输入连接器型号 Input connector type	MC4*2

4.2 DC 输出 DC Output:

1	额定功率 Rated Power	800W
2	最大输出电流 Max. Output Current	19.04A
3	标称电压/范围 Nominal Voltage/Range	42-50.4V
4	输出连接器型号 Output connector type	MC4*2

4.5 电池规格 Battery Specification:

1	电池电压范围 Battery Voltage Range	42V~50.4V
2	最大充电电压 Max. Charging Voltage	50.4V
3	充电/放电电流 Charge/Discharge Current	50A
4	电池类型 Battery Type	LiFeO ₄
5	循环寿命 (次) Life Cycle (Times)	>6000(25°C)
6	单个模组容量 Single Module Capacity	2240Wh
7	放电深度 DoD	95%

六、产品尺寸及重量 Product Size and Weight

6.1 成品 2D 视图 2D View (单位 unit: mm 公差 tolerance: ±0.5mm)



6.2 成品重量 weight: $20 \pm 1.0\text{kg}$

七、产品图及端口定义 Product Drawing and Port Definition



	Model	B2500-D
GENERAL	Capacity	2240Wh
	Cell Chemistry	LiFePO ₄
	Lifecycle	6000+ Cyclesto 80% Capacity
	Storage Temp.	14°F~131°F(-10°C~55°C)
	Operating Temp.	14°F~104°F(-10°C~40°C)
	Material	ABS + PC + Metal
	Weight	20±0.5kg
	Dimensions	350*295*175mm
	Battery Management System	OVP, UVP, OCP, SCP, OTP, UTP, etc
	Wireless	BT5.2 + WIFI 2.4G
MC4*2 PV INPUT	Power	500W*2 Max
	Voltage Range	12V~59V
	Max. Input Current	13.5A*2
MC4*2 OUTPUT	Power	400W*2 Max
	Voltage Range	16V~40V
	Max. Output Current	15A*2

八、注意事项 Attention Matters

- 请勿放在高温环境中或火边烘烤，或在太阳底下暴晒；
- Do not bake in high temperature or near fire, or burst in the sun;
- 请勿置于水中或在室外淋雨；
- Do not put in water or in the rain outside;
- 请勿在使用环境范围以外的环境使用；
- Do not use it in an environment outside the scope of use;
- 当应用逆变器时，请消费者使用获得官方认证许可的电气和电子设备；
- When applying inverters, consumers should use officially certified electrical and electronic equipment;
- 禁止用钉子或其它尖锐物体刺穿电源壳体，禁止锤击或脚踏电源；
- Do not use nails or other sharp objects to Pierce the power supply housing, do not hammer or pedal the power supply;
- 禁止以任何方式分解电源；
- Do not disassemble the power supply in any way;
- 如果电源发出异味、发热、变形、变色或出现其它任何异常现象时不得使用；
- If the power supply emits peculiar smell, heat, deformation, discoloration or any other abnormal phenomenon shall not be used;
- 如果电源泄漏或发出异味，应立即将其从接近明火处移开；
- If the power supply leaks or gives off an odor, remove it immediately from the vicinity of an open flame.
- 如果设备长期不用，将电源放置在凉爽、干燥的地方并每隔 3~6 个月对其进行充放电，否则，会影响电源的性能、缩短电源的使用寿命。
- If the device is not used for a long time, place the power supply in a cool and dry place and charge and discharge it every 3~6 months. Otherwise, the performance of the power supply will be affected and the service life of the power supply will be shortened.

九、产品规格书的修订 Revision of Product Specification

本公司有权对本产品规格书进行修订，并可能不再另行通知。

The Company reserves the right to amend this product specification without prior notice.