V-LFP-480V-250Ah

Lithium Iron Phosphate battery specification

磷酸铁锂电池方案规格书

Model: V-LFP-480V-250Ah

型号：**V-LFP-480V-250Ah**

Type: LiFePO4

类型：磷酸铁锂

Revision: V1.0

版本：**V1.0**

Date:2018-5-10

日期**:2018-5-10**

Prepared	Checked	Approved
编写	**审核**	**批准**
Jam		

Customer Comment:
客户意見：

Customer Approval/Date:
客户批准/日期：

Battery specification:

电池规范:

Module 型号		V-LFP-480V-250Ah
Voltage 电压		480V
Capacity 容量		250Ah
Max Power 最大输出功率		500KW
Load 负载		400KW
Weight 重量		350*5Kg
Energy 电能	Nominal energy 标称电能	26.4KWh
	Volumetric energy density 能积比	219.5Wh/L
	Gravimtrice energy density 能质比	112.6Wh/Kg
Dimension.Terminals 单体尺寸	Depth*Width*Height 深*宽*高	130mm*36.5mm*162mm
Standard Discharge 放电标准	Max.cont.current 最大持续电流（25℃，4C）	1250A
	Cut-off voltage 截止电压	424V
Standard charge 充电标准	Charge voltage 充电电压	564~576V
	Max.cont.current 最大持续电流（25℃，2C）	250A
	charging current and time 充电电流和时间（25℃，1C）	250A for 1hours
Round trip efficiency 充放效率(%)		>96%
Calendar life 工作寿命（25℃）		>10 years
Cycle life 循环寿命（25℃）		80% DOD 2000cycles
Operating temperature 工作温度		-20℃~65℃

Features:

特征:

- RS485 interface

  RS485 接口

- CAN interface*

  CAN 接口*

- Internal automatic protection for over-charge,over-discharge and over-temperature

  内设过充、过放、过温保护

- State of charge(SOC) and state of health(SOH) indication

  显示剩余电量百分比和当前容量与出厂容量的百分比

- Internal cell balancing

  内设电池均衡

- D_OUT interface for customized dry contact signal

  方便客户定制的 D_OUT 接口，用于干信号输出

- Maintenance free

  免维护

*Based on the customized model

*根据定制的型号选配

BMS Specifications:

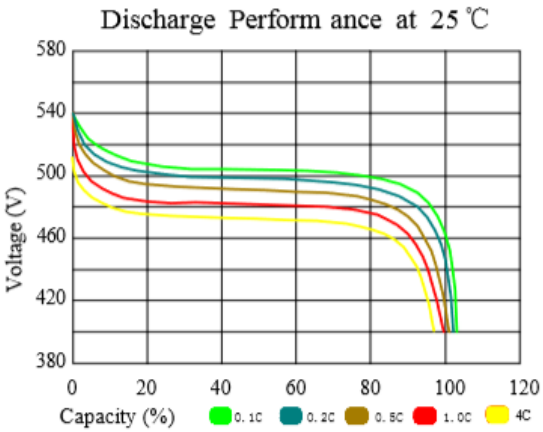
BMS 参数规格:

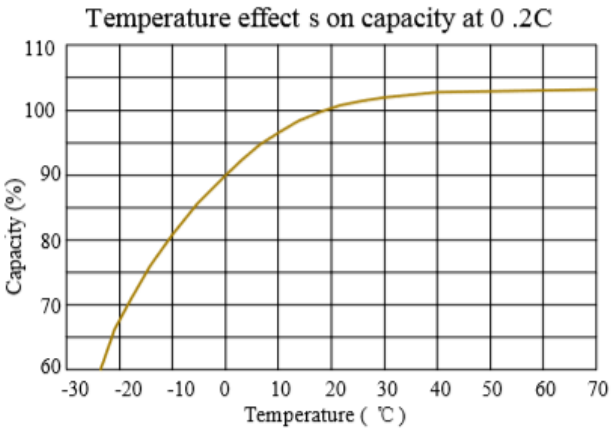
NO.	FUNCTION 功能	DESCRIPTION 描述	SPECIFICATION 规范	REMARK 备注
1	Charging current 充电电流	Nominal 额定值	50A	
		Maximum 最大值	100A	
2	Discharging current 放电电流	Nominal 额定值	198A	
		Maximum 最大值	250A	
3	Over charge protection 过充保护	Trigger voltage 触发电压	3.65V	
		Trigger delay 触发延时	1S	
		Release voltage 解除电压	3.45V	
		Release delay 解除延时	1S	
4	Balancing 电池均衡	Trigger voltage 触发电压	3.6V	
		Release voltage 解除电压	3.58V	
		Balancing current 均衡电流	60mA	
5	Over discharge protection 过放保护	Trigger voltage 触发电压	2.65V	
		Trigger delay 触发延时	1S	
		Release voltage 解除电压	2.75V	
		Release delay 解除延时	1S	
6	Over current protection 充电过流保护	Trigger current 触发电流	150A	
		Trigger delay 触发延时	8mS	
		Release delay 解除延时	1.2mS	

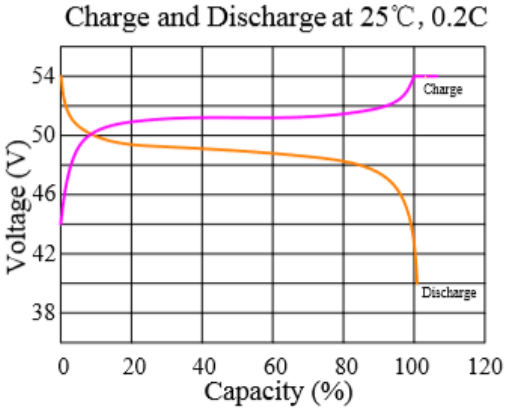
		Release condition 解除条件	Remove the charger, connected to the load 移除充电器，接负载	
7	Over current protection 放电过流保护	Trigger current 触发电流	1 级：300A 2 级：350A	
		Trigger delay 触发延时	1 级：10mS 2 级：1.5mS	
		Release delay 解除延时	1.5mS	
		Release condition 解除条件	Remove the load 移除负载	
8	Short circuit protection 短路保护	Trigger condition 触发条件	Load short circuit 负载短路	
		Trigger current 触发电流	400A	
		Trigger delay 触发延时	300uS	
		Release condition 解除条件	Remove the load 移除负载	
9	high temp protection 高温保护	charge high temp protection 充电触发温度	60±2° C	
		charge high temp recovery 充电恢复温度	55±2° C	
		Discharge high temp protection 放电触发温度	65±2° C	
		Discharge high temp recovery 放电恢复温度	60±2° C	
10	Low temp protection 低温保护	charge low temp protection 充电触发温度	-5±2° C	
		charge low temp recovery 充电恢复温度	0±2° C	
		Discharge low temp protection 放电触发温度	-20±2° C	
		Discharge low temp recovery 放电恢复温度	-15±2° C	
11	ESR 等效内阻	Internal resistance of main circuit 主回路导通内阻	＜10mΩ	
12	Self power consumption 自耗电	Working current 工作电流	＜12uA	
13	Operating temperature 工作温度	Temperature range 温度范围	-40~85° C	

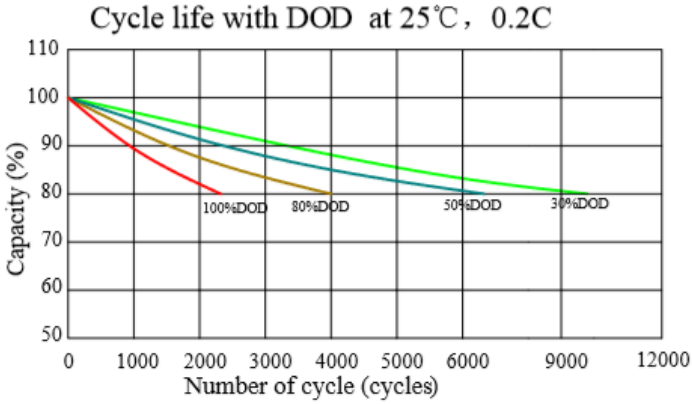
Performance curve:

性能曲线:







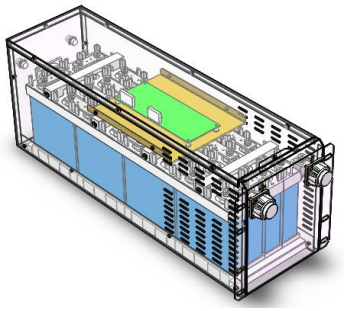


Performance curve may vary depending on, but not limited to cell usage and application. If cell is used outside specifications, performance will diminish.

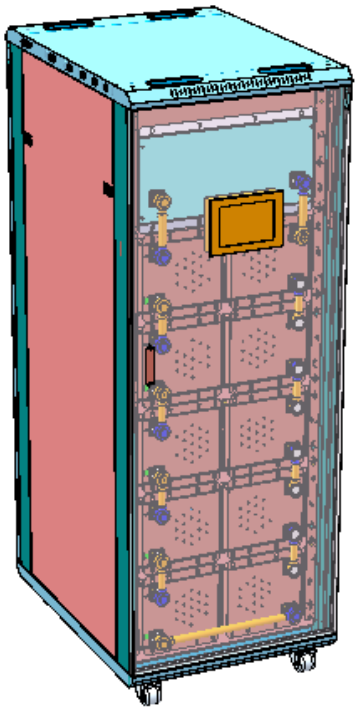
All specifications are subject to change without notice. All information provided herein is believed, but not guaranteed, to be current and accurate.

Design reference graph:

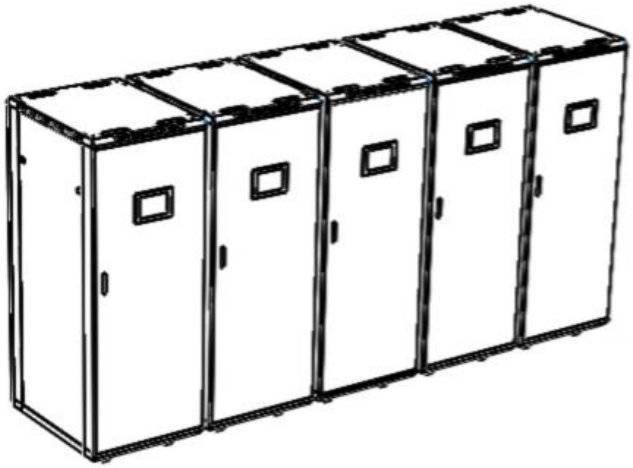
设计效果图:



48V50Ah



480V50Ah



480V250Ah