

Battery Specification

电池说明书

MODEL

型号: 12.8V100Ah--4S1P

Nominal Capacity

标称容量: 100Ah

Project number

立项编号: _____

Total Page

文件页数: 5 页

Registered 编制	Checked 审核	Approved 批准

1.Initial Size 初始尺寸



Product Size 产品尺寸: 332*176*214mm,

T (Total length) (长度)	332.0±2.0	W(Width) (宽度)	176.0±2.0	H(Height) (高度)	(214-220) ±2.0
L (lead wire length) 引出线长	/	terminal 端子	M8	Power 功率	1280Wh
PCM Protection Board PCM 保护板	BWPB-899-4S-100A BWPB-899-4S-100A-百维			Electric cell 电芯	亿纬 100Ah 亿纬 100Ah
Appearance 外观	12V100Ah- Black lead acid shell 12V100Ah- 黑色铅酸壳				

2. Battery picture 电池图片



3. Product Specifications 产品规格参数

No. 序号	Catalog 目录	Specification Requirements 规格要求
3.1	Typical capacity 典型容量	100Ah (0.2C discharge) 100Ah (0.2C 放电)
	Minimum capacity 最小容量	100Ah (0.2C discharge) 100Ah (0.2C 放电)
3.2	Nominal voltage 标称电压	12.8V
3.3	Shipping Voltage 出货电压	13.1~13.5V
3.4	Standard charging voltage 标准充电电压	CC/CV,20A,14.6V (0.2Ccharging)
		CC/CV,20A,14.6V (0.2C 充电)
3.5	Standard discharge 标准放电	CC,20A,10V (0.2Cdischarge)
		CC,20A,10V (0.2C 放电)
3.6	Charge cutoff voltage 充电截止电压	14.6V

3.7	Charge cutoff current 充电截止电流	0.02C 2A (At CV mode)
3.8	Discharge cut-off voltage 放电截止电压	10V
3.9	Charge time 充电时间	5-6 hours (standard charge) 5-6 小时(0.2C)
3.10	Fast charge/discharge current 快速充放电电流	50A (0.5C)
3.11	Maximum continuous charge/discharge current 最大持续充放电电流	100A (1C)
3.12	Recommended charge current 建议充电电流	20A (0.2C)
3.13	Maximum load/inverter power 最大负载/逆变器功率	1280W
3.14	Initial internal resistance 初始内阻	Max: ≤50mΩ
3.15	Weight 重量	(约): 净重 10.4 Kg, 毛重 11 Kg
3.16	Operating temperature range 工作温度范围	1: Charging 0° C~50° C (32° F~122° F) 2: Discharge -20° C~60° C (-49° F~140° F) 3: Storage -10° C~50° C (-14° F~122° F) 4: Low temperature cut-off protection (charging) 0° C±4° C (32° F±39.2° F) 5: Low temperature cut-off protection (discharge) -20° C±4° C (-4° F±39.2° F) 1: 充电 0° C~50° C (32° F~122° F) 2: 放电 -20° C~60° C (-49° F~140° F) 3: 存储 -10° C~50° C (-14° F~122° F) 4: 低温切断保护(充电) 0° C±4° C (32° F±39.2° F) 5: 低温切断保护(放电) -20° C±4° C (-4° F±39.2° F)
3.17	Cycle life 循环寿命	>2000 cycles (100% DoD) 3000 cycles, 80% DoD >2000 个周期 (100%DoD) 3000 个周期, 80%DoD
3.18	Waterproof rating 防水等级	IP65
3.19	Appearance 外观	No scratches, deformation, oil, leakage, breakage 无划痕、变形、油污、漏液、破损
3.20	Terminal type 端子类型	M8

4.Basic parameters of protection board 保护板基本参数

Over charge protect 过充保护	Over charge detection voltage(Cell) 单体过充保护电压	3.750V±0.050V	
	Protect delay time 保护延迟时间	500ms—1500ms	
	Over charge release voltage(Cell) 单体过充解除电压	3.500V±0.100V	
Over discharge protect 过放保护	Over discharge detection voltage(Cell) 单体过放保护电压	2.200V±0.050V	
	Protect delay time 保护延迟时间	500ms—1500ms	
	Over discharge release voltage(Cell) 单体过放解除电压	2.700V±0.100V	
Over Current protect 过流保护	1 st Level Overcurrent Discharge 一级放电过流保护	600A±50A	
	Protect delay time 保护延迟时间	3ms—60ms	
	2 st Level Overcurrent Discharge 二级放电过流保护	750A±50A	
	Protect delay time 保护延迟时间	800us—1500us	
	Protect relieve condition 保护解除条件	Cut load 断开负载	
Balanced 平衡	Balanced open voltage(Cell) 平衡开启电压	3.50V±0.050V	
	Balanced release voltage(Cell) 平衡释放电压	3.50V±0.050V	
	Balanced current(Cell) 平衡电流	116±10mA	