



# 10kWh battery energy storage system

## 10kWh电池储能系统

Draft 制定	Checked 审核	Approval 批准

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Customer Approval 客户认准	Checked 审核	Approval 批准

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## 1、Battery System Parameters 电池系统参数

Characteristic 特性	Parameter 参数	Remark 备注
Battery Type 电池类型	Lithium iron phosphate battery 磷酸铁锂	
Rated Capacity 额定容量	10kWh	DC port DC端口
Minimum capacity 最小容量	$\geq 10\text{kWh}$	Under standard charging and discharging 标准充电情况下
Maximum continuous discharge 最大连续放电	10kW	
Rated output voltage 额定输出电压	48V DC	
Standard charging voltage 标准充电电压	54.75V	
Standard charging current 标准充电电流	40A	
Maximum continuous charge current 最大持续充电电流	200A	
Standard discharge current 标准放电电流	120A	
Maximum continuous discharge current 最大持续放电电流	200A	
Discharge cut-off voltage 放电截止电压	37.5V	
operating temperature 操作温度	-10-55 $^{\circ}\text{C}$	
Storage temperature 储存温度	-20-45 $^{\circ}\text{C}$	
Communication port 通讯端口	RS232/RS485	
Operating humidity 操作湿度	0-95%	No condensation 无凝结
Waterproof level 防水等级	IP55	
Elevation 海拔高度	$\leq 2000\text{m}$	
Size 尺寸	600*600*1000mm	
Weight 重量	Approx:125KG	
Cycle life 循环寿命	$\geq 2000$	



## 2、Inverter Controller System Parameters 逆控系统参数

		5KVA	6KVA
DC input 直流输入	Rated input voltage (Vdc) 额定输入电压 (Vdc)	48V	
	Rated input current (A) 额定输入电流 (A)	105	125
	DC voltage allowable input range 输入直流电压允许范围	37.5-58.8V	
	Back-sinking murmur current 反灌杂音电流	≤10%	
Mains power input 市电输入	Allowable bypass voltage (Vac) 允许旁路电压 (Vac)	180-285 (±1%)	
	Rated input current (A) 额定输入电流 (A)	23.7	27.3
	Recharging current (A) 充电电流 (A)	Default 30A (can be set to 2/10/20/30/40/50/60A) 默认30A(可设置2/10/20/30/40/50/60A)	
	Bypass transition time (ms) 旁路转换时间 (ms)	≤5ms	
AC output 交流输出	Rated Capacity (VA) 额定容量 (VA)	5000VA	6000VA
	Rated output power (W) 额定输出功率 (W)	4000W	4800W
	Rated output voltage and frequency 额定输出电压及频率	220Vac,50hz	
	Rated output current (A) 额定输出电流 (A)	18.2	21.8
	Output voltage accuracy (V) 输出电压精度 (V)	220±1.5%	
	Output frequency accuracy (Hz) 输出频率精度 (Hz)	50±1%	
	Waveform distortion rate (THD) 波形失真率 (THD)	≤3% (linear load) ≤3% (线性负载)	
	dynamic response time 动态响应时间	5% (load 0↔100%) 5% (负载0↔100%)	
	power factor 功率因数 (PF)	0.9	
	Overload capacity 过载能力	120%, 30s	
	Inverter efficiency 逆变效率	≥93% (50% resistive load) or ≥91% (100% resistive load) ≥93% (50%阻性负载) 或者 ≥91% (100%阻性负载)	
	No-load loss 空载损耗	<150w	<180w
	Output waveform 输出波形	Standard sine wave 标准正弦波	
	Bypass transition time 旁路转换时间 (ms)	≤6ms	



working environment 工作环境	Insulation strength (input and output) 绝缘强度 (输入和输出)	1500Vac, no breakdown for one minute 1500Vac, 一分钟不击穿
	Noise (1 meter) 噪音 (1米)	≤40db
	Use ambient temperature 使用环境温度	-25-50°C
	Humidity 湿度	0-90% ,Does not condense 0-90%, 不结露
	Elevation 使用海拔 (m)	≤1000m
Protective function 保护功能	Input under-voltage, input over-voltage protection; output overload, output short-circuit protection; over-temperature protection; fan fault protection; lightning protection module. 输入欠压、输入过压保护；输出过载、输出短路保护；过温保护；风扇故障保护；防雷模块.	