储能逆控一体机
All One Energy Storage Battery System

产品特点 Product Features

- 多种组合方式，一站式家庭解决方案 电池可选10KWh,15KWh
  A variety of combinations, one-stop home solution The inverter can choose 5KW/10KW/15KW
- 模块化设计、智能切换，满足各种需求
  Modular design and intelligent switching to meet various needs
- 每节电池配备独立的BMS管理系统，电力分配更科学
  Each battery is equipped with an independent BMS management system, and the power distribution is more scientific.
- 支持RS485/RS232等通讯协议，可选蓝牙模块，电池管理更智能
  Support RS485/RS232 and other communication protocols, optional Bluetooth module, battery management is more intelligent

产品介绍 Product Description

采用高效MPPT太阳能充电技术，最大化捕获光伏能量，提升可再生能源利用率。锂电池组支持超5000次深度循环，寿命长达10年以上，显著降低全周期使用成本。模块化堆叠式设计支持灵活扩容，适配户用、工商业及离网等多场景需求。

集成工业级通讯接口（RS232/RS485）与蓝牙无线传输，配合智能BMS电池管理系统，实现电芯级精准监控、主动均衡与三重安全防护（过压/过流/温度保护）。LCD触摸屏实时显示充放电状态、故障代码及能效数据，操作直观便捷。

The high-efficiency MPPT solar charging technology is used to maximize the capture of photovoltaic energy and improve the utilization rate of renewable energy. The lithium battery pack supports more than 5,000 deep cycles and has a service life of more than 10 years, significantly reducing the cost of the whole cycle. The modular stacking design supports flexible capacity expansion and adapts to the needs of multiple scenarios such as residential, industrial and commercial, and off-grid.

Integrated industrial-grade communication interface (RS232/RS485) and Bluetooth wireless transmission, with intelligent BMS battery management system, the implementation of cell-level precise monitoring, active balancing and triple safety protection (over-voltage/over-current/temperature protection). The LCD touch screen displays real-time charging and discharging status, fault codes and energy efficiency data, making the operation intuitive and convenient.

纯正弦波 Pure sine wave	电池管理系统 Operational safety	MPPT太阳能充电 MPPT solar charging	过压保护 Overvoltage protection	过流保护 Overcurrent protection
过充保护 Overcharge protection	LCD显示屏 LCD display	通讯协议 Communication protocols	高次数循环使用 High number of recycling	使用寿命长 Long service life
模块化&堆叠式设计 Modular & stackable design	高等级防护 High level of protection			

技术参数
Technical parameters

逆变器参数 Inverter parameters	
额定功率 Rated power	11KW
交流额定电压 AC voltage rating	230VAC
可选电压范围 Selectable voltage range	90-280VAC
频率范围 Frequency range	50Hz/60Hz
交流电压 AC voltage	230VAC±5%
效率 Efficiency	93.50%
转换时间 Conversion time	10ms
波形 Waveform	正弦波 Sinusoid
蓄电池额定电压 Battery rated voltage	51.2V
电池电压范围 Battery voltage range	43.2V-58.4V
兼容电池类型 Compatible battery types	锂电池 lithium battery
最带光伏阵列开路电压 Most with PV array open-circuit voltage	500VDC
最带光伏阵列功率 Maximum PV array power	11000W
MPPT范围@运行电压 MPPT range @ operating voltage	120-450VDC
最大输出电流 Maximum output current	47.8A
最大充电电流 Maximum charging current	150A

电池参数 Battery parameters		
产品型号 Product Model	BTRYT1148200	BTRYT1148300
额定电压 Rated voltage	51.2V	
额定能量 Rated energy	10240Wh	15360Wh
输出功率 Output Power	43.2-58.4V	
额定容量 Rated capacity	43.2V	
BMS品牌 BMS brand	沛城 / PACE 16S200A	
电芯类型 Cell Typ	磷酸铁锂方块电芯(LiFePO4)	
组合方式 Composition	16S1P	
工作电压范围 Working Voltage Rang	43.2-58.4V	
充电电流 Charging current	≤200A	
最大充电电流 Maximum charging current	≤200A	
最大放电电流 Maximum discharge current	≤200A	
通信接口 Communication interfaces	RS485/RS232/CAN	
循环次数 Number of cycles	6000@25℃/0.5C/80%DOD	
工作温度范围 Operating temperature range	充电Charge：0℃~50℃ 放电Discharge：-10℃~60℃	
产品尺寸 Product size	根据需求确定 / Determine according to the demand	
包装方式 Packaging method	纸箱或木箱 / Carton or wooden case	