堆叠式家庭储能电池
Stacked home energy storage batteries

产品特点 Product Features

- 接口隐藏式设计，更安全
  The interface is hidden and more secure
- 模块化设计，采用5Kwh/节的堆叠设计，满足各种需求
  Modular design, intelligent switching, and 5Kwh/knot stacking design to meet various needs
- 每节电池配备独立的BMS管理系统，电池更耐用
  Each battery is equipped with an independent BMS management system, and the battery is more durable
- 支持RS485/RS232/CAN等通讯协议，带蓝牙APP，电池管理更智能
  Support RS485/RS232/CAN and other communication protocols, with Bluetooth APP, battery management is more intelligent

产品介绍 Product Description

支持超6000次深度循环，寿命长达8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，所有接口采用隐藏式设计，家庭使用更安全。

集成工业级通讯接口（RS232/RS485/CAN），每节电池拥有独立的BMS电池管理系统，实施电芯级精准监控（过压、过流、温度保护）。蓝牙APP实时显示充放电状态、故障代码及能效数据，操作直观便捷。

It supports more than 6,000 deep cycles and has a service life of more than 8 years, significantly reducing the cost of the whole cycle. The modular stacked design supports flexible capacity expansion, adapts to the needs of residential, industrial and commercial, and off-grid scenarios, and all interfaces adopt a hidden design, making it safer for home use.
Integrated industrial-grade communication interface (RS232/RS485/CAN), each battery has an independent BMS battery management system, and implements cell-level accurate monitoring (over-voltage, over-current, temperature protection). The Bluetooth APP displays the charging and discharging status, fault codes and energy efficiency data in real time, and the operation is intuitive and convenient.

电池管理系统
Operational safety

蓝牙APP
Bluetooth app

过压保护
Overvoltage protection

过流保护
Overcurrent protection

过充保护
Overcharge protection

RS485 CAN
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

电池参数 Battery parameters			
产品型号 Product Model	BTRDD48100	BTRDD48200	BTRDD48300
额定电压 Rated voltage	51.2V		
额定能量 Rated energy	5120Wh	10240Wh	15360Wh
输出功率 Output Power	5.12KW	10.24KW	15.36KW
额定容量 Rated capacity	100Ah		
电芯类型 Cell Typ	磷酸铁锂方块电芯(LiFePO4)		
组合方式 Composition	16S1P*1Module模组	16S1P*2Module模组	16S1P*3Module模组
工作电压范围 Working Voltage Rang	43.2-58.4V		
放电保护电压 Discharge protection voltage	43.2V		
充电电保护电压 Charge protection voltage	58.4V		
持续放电电流 Max Discharge Current	100A		
持续充电电流 Max Charge Curent	< 100A		
BMS品牌	百维16s100A / Bestway 16s100A		
显示屏 Display	灯珠显示 / Lamp bead display		
通讯 Newsletter	RS485/RS232/CAN/蓝牙APP / RS485/RS232/CAN/Bluetooth APP		
兼容逆变器 Inverter compatible	DEYE /Afore /MEGAREVO/SOLIS/Growatt /LUXPOWER/oltronicsGoodwe/SMA/VictronSOROTEC/MUST/etc.		
BMS保护功能 Protection Function	有过充、过放、短路、高低温保护 Overcharge, overdischarge, short circuit, high and low temperature protection		
充电环境温度 Change Temperature	0~45℃		
放电环境温度 Dischange Temperature	-20~65℃		
储存温度 Storage Temperature	-10~45℃		
冷却方式 Cooling Method	自然冷却 Natural Cooling		
设计使用寿命 Design Life	8年/8 years		
循环次数 Number of cycles	6000@25℃/0.5C/80%DOD		
安装方式 Installation	堆叠式 / Stacked		
外观颜色 Exterior color	白色 / White		
外壳材质 Housing material	钣金烤漆 / Sheet metal baking paint		
产品尺寸 Product size	L620*W160*H41.5mm X 1	L620*W160*H41.5mm X 2	L620*W160*H41.5mm X 3
包装方式 Packaging method	纸箱 / carton		
包装尺寸 Package size	L665*W505*H255mm X 1	L665*W505*H255mm X 2	L665*W505*H255mm X 3
产品净重 Net weight of the product	48KG*1	48KG*2	48KG*3
产品毛重 Gross weight of the product	54KG*1	54KG*2	54KG*3