

CR-5 机架式储能电池

昆宇电源
COSPOWERS



- 1 简约设计，优雅美观，防护等级达IP20
- 2 支持多电池模块并联，最多可连接16个模块
- 3 支持扩展LCD显示屏及控制功能
- 4 支持壁挂式与落地式安装，适配多种应用场景

参数/型号		CR-5
电池参数	额定电压	51.2V
	电压范围	43.2~56.8V
	容量	5120Wh
	最大充放电比率	0.5C/1C
	电池类型	磷酸铁锂
	并联数量	16个模组
运行条件	充电温度范围	6~54°C
	放电温度范围	-15~60°C
	湿度	5~95%
	散热方式	自然冷却
	重量	43Kg
	尺寸(W*D*H)	440*131*460mm
	安装方式	19英寸标准机柜
通讯方式	CAN/RS485	
逆变器	匹配逆变器	派能、古瑞瓦特、中核英利、固德威、鹏程、瓦特、维克创、索罗泰克、施耐德、SMA、美斯、TBB、史陶比尔
其他参数	电压	电池组过压保护、单体过压保护、电池组欠压保护、单体欠压保护
	电流	充电过流保护、放电过流保护
	温度	充电过温保护、放电过温保护、充电欠温保护、放电欠温保护
其他功能	电芯和电池包电压检测	单节电芯的电压检测精度在-10°C至50°C条件下为±5mV，其它条件下为±10mV
	电池包充放电电流检测	持续充放电电流100A，电流检测精度优于1.5%
	电芯、环境及功率MOS温度检测	6路温度监测：4路电芯温度检测，1路环境温度检测，1路MOS温度检测，温度检测精度为±2°C
	LED灯状态指示	6个LED指示电池剩余容量、工作模式及告警保护状态
	电池管理参数设置	单体电池过欠压、电池总压过欠压、充电过流、放电过流、电芯高温、环境高温、均衡策略、电池串联节数、电池容量等各项电池管理参数都可以通过上位机来重新进行设定
	数据存储功能	BMS系统可以通过设置，使能系统进行运行数据的实时存储。用于系统的监控、分析与维护。 EEPROM：最大支持1000条历史记录。FLASH：最大支持3万条历史记录，此大容量存储功能(选配)
	干接点	干接点1：可根据需求软件设置报警输出 干接点2：可根据需求软件设置故障信号输出
	加热功能	具有电池低温加热功能，加热电路具有二级保护功能，在加热电路异常下可彻底断开加热膜。加热膜电流不大于5A。
WiFi功能(可选)	高性价比的Bluetooth 5.2和Wi-Fi 802.11b/g/n目录和STA双角色连接，支持低功耗蓝牙连接，非常适合智能家居、工业控制等低流量控制与数据采集应用等。模块内置一个Wi-Fi和蓝牙的超高集成度微控制器，提供了IoT数据终端必备的计算能力和稳定的Wi-Fi和蓝牙连接性；提供蓝牙连接手机APP，在手机APP进行WiFi连接设置，就客户在网页看到电池的当前状态与信息，同时还可以通过WiFi平台远程对电池升级	



深圳昆宇电源科技有限公司

网址:WWW.COSPOWERS.COM

地址:深圳市宝安区燕罗街道罗田社区第三工业区广田路2号

电话:0755-33185898

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CR-5

Rack Mounted Energy Storage Battery



- 1 Minimalist design, elegant and beautiful, with protection level of IP20
- 2 Supports multiple battery modules in parallel, up to 16 modules
- 3 Support the expansion of LCD display and control functions
- 4 Support wall-mounted and floor-mounted installation, matching a variety of scenes

Parameters/ Model		CR-5
Battery Parameters	Rated Voltage	51.2V
	Voltage Range	43.2~56.8V
	Capacity	5120Wh
	Maximum Charge/Discharge Ratio	0.5C/1C
	Battery Type	LFP
	Number of Parallel Connection	16 Modules
Operating Condition	Charging Temperature Range	6~54°C
	Discharge Temperature Range	-15~60°C
	Humidity	5~95%
	Heat Dissipation Method	Natural Cooling
	Weight	43Kg
	Dimensions (W*D*H)	440*131*460mm
	Installation	19-inch standard cabinet
	Communication Method	CAN/RS485
Other Parameters	Matching Inverter	Pylon, Growatt, SRNE Solar, Goodwe, Solis, Pengcheng, Voltronic, Victron, Sorotek, Schneider, SMA, Must, TBB, STUDER
Protection Functions	Voltage	Battery pack overvoltage protection, cell overvoltage protection, battery pack undervoltage protection, cell undervoltage protection
	Current	Charging overcurrent protection, discharging overcurrent protection
	Temperature	Charging over-temperature protection, discharging over-temperature protection, charging under-temperature protection, discharging under-temperature protection
Other Functions	Cell and Battery Pack Voltage Detection	Single-cell voltage detection accuracy: $\pm 5\text{mV}$ under conditions of -10°C to 50°C , and $\pm 10\text{mV}$ under other conditions
	Battery Pack Charge/Discharge Current Detection	Continuous charge/discharge current: 100A, current detection accuracy better than 1.5%
	Cell, Ambient, and Power MOS Temperature Detection	Six-channel temperature monitoring: 4 channels for cell temperature detection, 1 channel for ambient temperature detection, 1 channel for MOS temperature detection, with a temperature detection accuracy of $\pm 2^{\circ}\text{C}$
	LED Status Indicator	Six LEDs indicate battery remaining capacity, operating mode, and alarm/protection status
	Battery Management Parameter Configuration	Battery management parameters such as cell over/undervoltage, total battery pack over/undervoltage, charging overcurrent, discharging overcurrent, cell high/low temperature, ambient high/low temperature, balancing strategy, number of battery cells in series, battery capacity, etc., can be reconfigured via the host computer
	Data Storage Function	The BMS system can be configured to enable real-time storage of operational data for system monitoring, analysis, and maintenance. EEPROM: supports up to 1,000 historical records. FLASH: supports up to 30,000 historical records (this large-capacity storage function is optional)
	Dry Contact	Dry contact 1: alarm output can be set via software as required; Dry contact 2: fault signal output can be set via software as required
	Heating Function	Equipped with a low-temperature heating function for the battery, with secondary protection for the heating circuit to completely disconnect the heating film in case of abnormal heating circuit conditions. Heating film current does not exceed 5A
WiFi Function (Optional)	Cost-effective Bluetooth 5.2 and Wi-Fi 802.11b/g/n support both AP and STA dual-role connectivity, with support for low-power Bluetooth connections, making it ideal for low-traffic control and data acquisition applications such as smart homes and industrial control. The module integrates an ultra-highly integrated microcontroller for Wi-Fi and Bluetooth, providing the necessary computing power and stable Wi-Fi and Bluetooth connectivity for IoT data terminals. It offers Bluetooth connectivity to a mobile APP for Wi-Fi connection setup, allowing customers to view the battery's current status and information on a webpage. Additionally, the battery can be upgraded remotely via the Wi-Fi platform.	



Shenzhen Coslight Power Technology Co., Ltd.

W: WWW.COSPOWERS.COM

A: No.2, Guangtian Road, No.3 Industrial Zone, Luotian Community, Yanluo Street, Baoan District, Shenzhen, Guangdong Province, P.R.C

T: +86-755-33185898

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