

Celestial Energy-2089-0.5C

昆宇电源
COSPOWERS

应用领域:

- 风光新能源电站的削峰填谷平滑输出
- 电网侧调频调峰, 配电网变压器容量扩容
- 用户侧C&I工商业储能的峰谷套利, 后备电源



模块化
标准设计



多重
保护系统



交直流一体
安装调试高效



智能运维

参数/型号		Celestial Energy-2089-0.5C
直流侧参数	电芯容量	314Ah-LFP
	模块成组	1P52S
	单簇模块数量	4pcs
	电池簇数量	10pcs
	电池系统电量	2089kWh
	电压范围	582.4~738.4V
交流侧参数	额定交流功率	2*500kW
	额定电网电压	AC400V
	接线方式	3W+PE
	额定电网频率	50/60Hz
	隔离方式	无隔离变压器
系统级参数	工作温度	-30~55℃
	环境湿度	0~95% (无凝露)
	工作海拔	2000m
	通讯方式	以太网、RS485、可选4G/5G移动通信
	防护等级	IP54
	冷却方式	液冷
	噪音	≤75dB
	消防	七氟丙烷/全氟己酮舱级/气溶胶+水消防+可燃气体探测+防爆通风系统
	尺寸(W*D*H)	6058*2438*2896mm
	重量	25t
符合标准	Cluster	IEC62619、UL1973、UL9540A、UN38.3
	PCS	UL1741、EN50549、VDE4110、VDE4120、VDE4130、GB/T34120、GB/T36547...



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Application Field:

- Peak shaving, valley filling, and output smoothing for renewable energy stations (wind and solar);
- Grid-side frequency regulation, peak shaving, and distribution network transformer capacity expansion;
- Peak-valley arbitrage and backup power for customer-side C&I commercial and industrial energy storage.



Modular and
standardized design



Multi-level protection
system



Integrated AC/DC system for
efficient installation and
commissioning



Intelligent operation and
maintenance

Parameters/ Model		Celestial Energy-2089-0.5C
DC side Parameters	Cell Capacity	314Ah-LFP
	Module Configuration	1P52S
	Number of Modules per Rack	4pcs
	Number of Battery Racks	10pcs
	Battery System Energy	2089kWh
	Voltage Range	582.4~738.4V
AC side Parameters	Rated AC Power	2*500kW
	Rated Grid Voltage	AC400V
	Wiring Configuration	3W+PE
	Rated Grid Frequency	50/60Hz
	Isolation Method	No Isolation Transformer
System level Parameters	Operating Temperature	-30~55°C
	Ambient Humidity	0~95% (No Condensation)
	Operating Altitude	2000m
	Communication Method	Ethernet, RS485, optional 4G/5G mobile communication
	Protection Level	IP54
	Cooling Method	Liquid Cooling
	Noise Level	≤75dB
	Fire Protection	Heptafluoropropane/Perfluoroketon Enclosure-level/Aerosol + Water Fire Protection, Combustible Gas Detection, and Explosion-Proof Ventilation System
	Dimensions (W*D*H)	6058*2438*2896mm
	Weight	25t
Compliance Standards	Cluster	IEC62619、UL1973、UL9540A、UN38.3
	PCS	UL1741、EN50549、VDE4110、VDE4120、VDE4130、GB/T34120、GB/T36547...



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