

# Celestial Energy-2089-0.5C NEW

昆宇电源  
COSPOWERS

应用领域:

- 用户侧C&I工商业储能的峰谷套利, 后备电源
- 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



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°C  |
|       | 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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**COSPOWERS**

## Application Field:

- Peak-valley arbitrage and backup power for customer-side C&I commercial and industrial energy storage;
- 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.



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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