

CESS4000

4073 kWh Outdoor Containerized DC Energy Storage System



Convenient, Flexible and High-efficiency

- Battery modules and liquid cooling systems are pre-installed at the factory
- Standard 20-foot ISO container design

High-efficient Battery Management System

- Real-time status monitoring of the battery system
- Precision balanced charging and discharging management

Integration of Multiple Safety Designs

- Explosion-proof ventilation design compliant with NFPA 69
- Capable of detecting smoke and flammable/explosive gas

Hybrid Cooling Mode

- Liquid-cooling chiller + HVAC
- Supplementary air-cooling can reduce the power consumption

GENERAL

| | |
|----------------------------------|--|
| Nominal Energy | 4073 kWh |
| Maximum Charge/Discharge Rate | 0.1~0.5 C |
| Operating Temperature Range | -30°C ~ 50°C / -22°F ~122°F |
| Dimension (mm) | W6058×H2896×D2438 |
| Footprint | 20' high – cube IOS container |
| Weight | Approximately 83775 lbs / 38 ton |
| Corrosion-proof Grade of Cabinet | C4 (C5 Optional) |
| IP Rating | IP55 (Outdoor Use) |
| Noise Level | 84 dBA at 1m (50 Hz) 86 dBA at 1m (60 Hz) |
| BMS | Integrated |
| EMS | Integrated |
| Auxiliary Load Voltage | 480V 60Hz or 380 ~ 415V 50~60Hz, 3P4W |

DC Side

| | |
|--------------------------------|-----------------|
| Battery Rack Quantity | 10 |
| Battery Pack Quantity per Rack | 8 |
| Battery Pack Structure | 1P52S |
| Battery Cell Capacity | 306 Ah |
| Battery Energy per Pack | 50.918 kWh |
| Battery Type | LiFePO4 |
| DC-side Rated Voltage | 1331.2 Vdc |
| Output DC Voltage Range | 1164 ~ 1500 Vdc |
| Cooling Method | Liquid-cooling |

Standards

EN 62477-1
 IEC 62040-1
 EN 61000-6-2/-4
 EN 55011
 CISPR11
 IEC 62933-5-2
 IEC 62933-5-1/-2-1
 IEC 61439-1/-2
 UL9540
 UL9540A
 NFPA69
 UN38.3

*Note:

1. Please contact out sales if you want to know of other relevant certifications.