

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.