

CPS ES-2MW/2.4MW-EU 2/4h

Utility Energy Storage System



Key Features

- Fully integrated system with minimum on-site instllation and commission efforts
- High energy density: 5MWh in one 20ft container, 2.4MW PCS skid in one 20ft container
- Modular design, reducing O&M costs, easy to expand
- Outdoor design, IP54 rated for application in different environments
- New and old battery racks can be integrated
- Comprehensive fire prevention design to ensure system safety
- Smart cooling control to improve battery performance and lifecycle
- Rack-level control and management for ESS, improved availability and efficiency

Model Name (PCS Skid, Battery Container)	PCS Skid: CPS PSW2.4M-EU Battery Container: CPS ES-5015KWH-EU		PCS Skid: CPS PSW2M-EU Battery Container: CPS ES-4179KWH-EU	
Battery Parameter				
Battery Capacity	5MWh	2x5MWh	4.179MWh	2x4.179MWh
Battery Cell	LFP 314Ah			
Pack Configuration	1P52S			
Battery Configuration	1x12P416S	2x12P416S	1x10P416S	2x10P416S
Rate Voltage	1331.2V			
Operating Voltage Range	1164~1497V			
Electrical Parameter				
Rated AC Output Power	2.4MW		2MW	
Medium Voltage Rating	13.8kV, 15kV, 20kV, 30kV, 33kV, 34.5kV			
Grid Frequency	50Hz / 60Hz			
Vector Group	Dy1, Dy11			
Cooling Method	ONAN			
System Parameter				
Protection Degree	PCS Skid: IP54 ; Battery Container: IP54			
Cooling Method	PCS: Air Cooling, Batteries :Liquid Cooling			
Operating Temperature Range	-20°C to 50°C			
Operating Altitude	≤6562ft / 2000m			
Operating Humidity	0-95%, non-condensing			
PCS Weight	12.9T	12.9T	12T	12.5T
Battery Container Weight	43T	2x43T	37T	2x37T
Dimensions (WxHxD)	PCS Skid: 238.5 x 114.0 x 96.0in / 6058 x 2896 x 2438mm Battery Container: 238.5 x 114.0 x 96.0in / 6058 x 2896 x 2438mm			
Display and Communication				
Communication	RS485 / Ethernet / CAN			
Communication protocol	Modbus-TCP/RTU			
Safety				
Certifications and Standards	Battery : IEC 62477 / IEC 61000 / IEC 62619 / IEC 63056 PCS: UL1741, CSA-22.2 NO.107.1-16, IEEE1547-2018, FCC Part 15, IEC61000, IEC62477, IEC62109, EN50549, VDE 4110&4120, NTS2.1			
* Product specifications and dimensions may be updated based on the latest information provided and are subject to change without prior notice.				