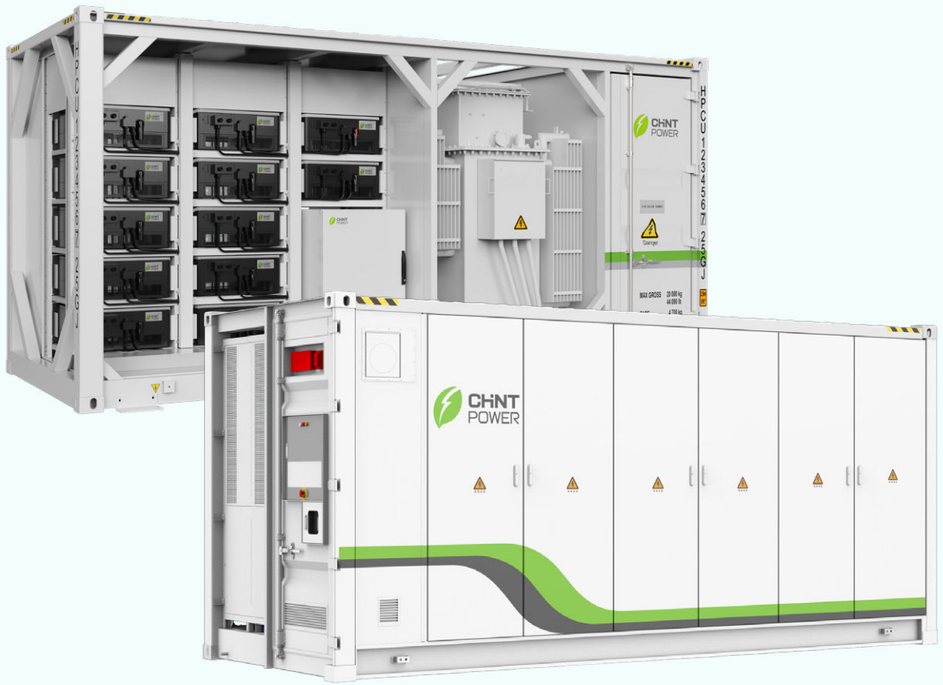
CPS ES-2.4MW/5/10MWh

Utility Energy Storage System



Key Features

- Fully integrated system with minimum on-site installation 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	CPS ES-2.4MW/5MWh		CPS ES-2.4MW/10MWh	
Model Name (Battery Container, PCS Skid)	Battery Container: CPS ES-5015kWh PCS Skid: CPS PSW2.4M-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	12x200kW		10x200kW	
Medium Voltage Rating	10~35kV			
Grid Frequency	50Hz			
Grid Frequency Range	45~55Hz			
Vector Group	Dy1, Dy11			
Cooling Method	ONAN			
System Parameter				
Protection Degree	PCS Skid: IP54 ; Battery Container: IP55			
Cooling Method	PCS: Air Cooling, Batteries :Liquid Cooling			
Operating Temperature Range	-25℃ to +55℃ (derating from +45℃)			
Operating Altitude	3000m (>2000m derating)			
Operating Humidity	0-95%, non-condensing			
PCS Weight	16T	16T	15T	15T
Battery Container Weight	41.8T	2x41.8T	37T	2x37T
Dimensions (WxHxD)	PCS Skid: 6058 x 2896 x 2438mm Battery Container: 6058 x 2896 x 2438mm			
Display and Communication				
Communication	RS485 / Ethernet / CAN			
Communication protocol	Modbus-TCP/RTU			
Safety				
Certifications and Standards	Battery : IEC 62619 / IEC 63056 / IEC 62477 / IEC 61000 / IEC 60730 / UL1973 / UL9540A / UL 9540 / FCC / IEC 62620 / NFPA 68 / NFPA 69 / IEC 62933-5-2 / CEI 0-16 PCS: IEC 62920 / IEC 62477 / IEC 61000 / IEC 62109 / IEC 60068 / EN 50549 / UNE 217001&217002 / NTS 2.1 / AS/NZS 4777.2 / VDE 4110&4120&4130 / TOR TYPE A&B / TR3.3.1 / UL 1741 / IEEE 1547			

* Product specifications and dimensions may be updated based on the latest information provided and are subject to change without prior notice.