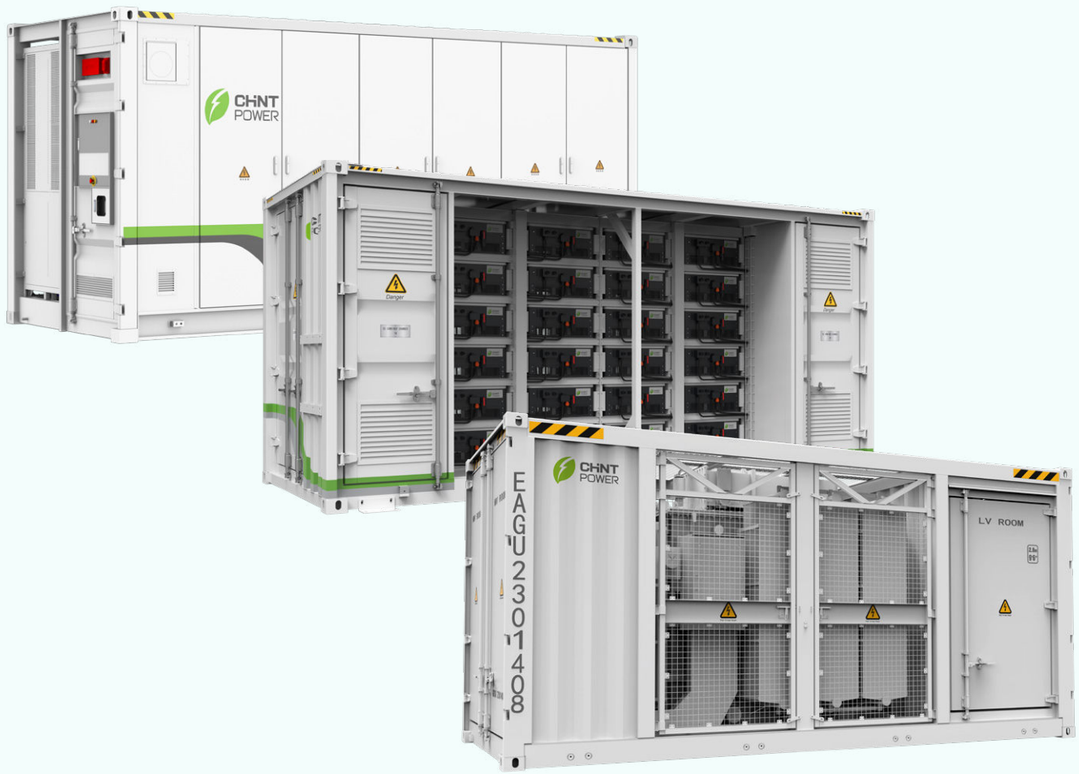
CPS ES-9.6MW/20MWh

Utility Energy Storage System



Key Features

- Pre-assembled system design with standard container transportation for the entire unit
- Battery, PCS, and transformer compartmentalized design for isolating faults and flexible combination
- Equipment supply with in-factory pre-assembly and testing for quick grid connection on-site
- Maximum 9.6MW system matrix to reduce equipment quantity and lower system costs
- One cluster, one management design to eliminate inter-cluster circulating currents, ensuring high system availability
- Custom design for ease of maintenance and expansion
- High protection design for the system, ensuring adaptability to various environmental conditions

Model Name	CPS ES-9.6MW/20MWh
Model Name (Battery Container, PCS Skid, PMVS)	Battery Container: CPS ES-5015KWH PCS Skid: CPS PSW4.8M-EU PMVS: CPS PSA9.6MO
Battery Parameter	
Battery Capacity	4x5MWh
Battery Cell	LFP 314Ah
Pack Configuration	1P52S
Battery Configuration	4x12P416S
Rate Voltage	1331.2V
Operating Voltage Range	1164~1497V
PCS Parameter	
Rated AC Output Power @ PF>0.99	2 x 24 x 200kW
Operating DC input Voltage Range	950~1500V
Output Voltage	800Vac (704~880Vac)
Grid Connection Type	3-Phase/PE
Max. AC Output Current @ 800Vac	24 x 145A / 2 x 1735A
Grid Frequency	50Hz
Grid Frequency Range	45~55Hz
DC/AC Surge Protection	Type II
PMVS Parameter	
Rated Input Voltage	800V
Rated AC Output Power	9.6MW
Medium Voltage Rating	10~35kV
Grid Frequency	50Hz
Grid Frequency Range	45~55Hz
Vector Group	Dy11-y11
Cooling Method	ONAN
Surge Protection	Type II
System Parameter	
Protection Degree	PCS Skid: IP54; Battery Container: IP55; PMVS: IP54
Cooling Method	PCS Skid: Variable speed cooling fans, Batteries :Liquid Cooling; PMVS:ONAN
Operating Temperature Range	-25℃ to +55℃ (derating from +45℃)
Operating Altitude	3000m (>2000m derating)
Operating Humidity	0-95%, non-condensing
PCS Skid Weight	11T
Battery Container Weight	4x41.8T
PMVS Weight	<30T
Dimensions (WxHxD)	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 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 PMVS: IEC 62271-202 / IEC60076-1 / IEC 62271-200 / IEC 61439-2

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