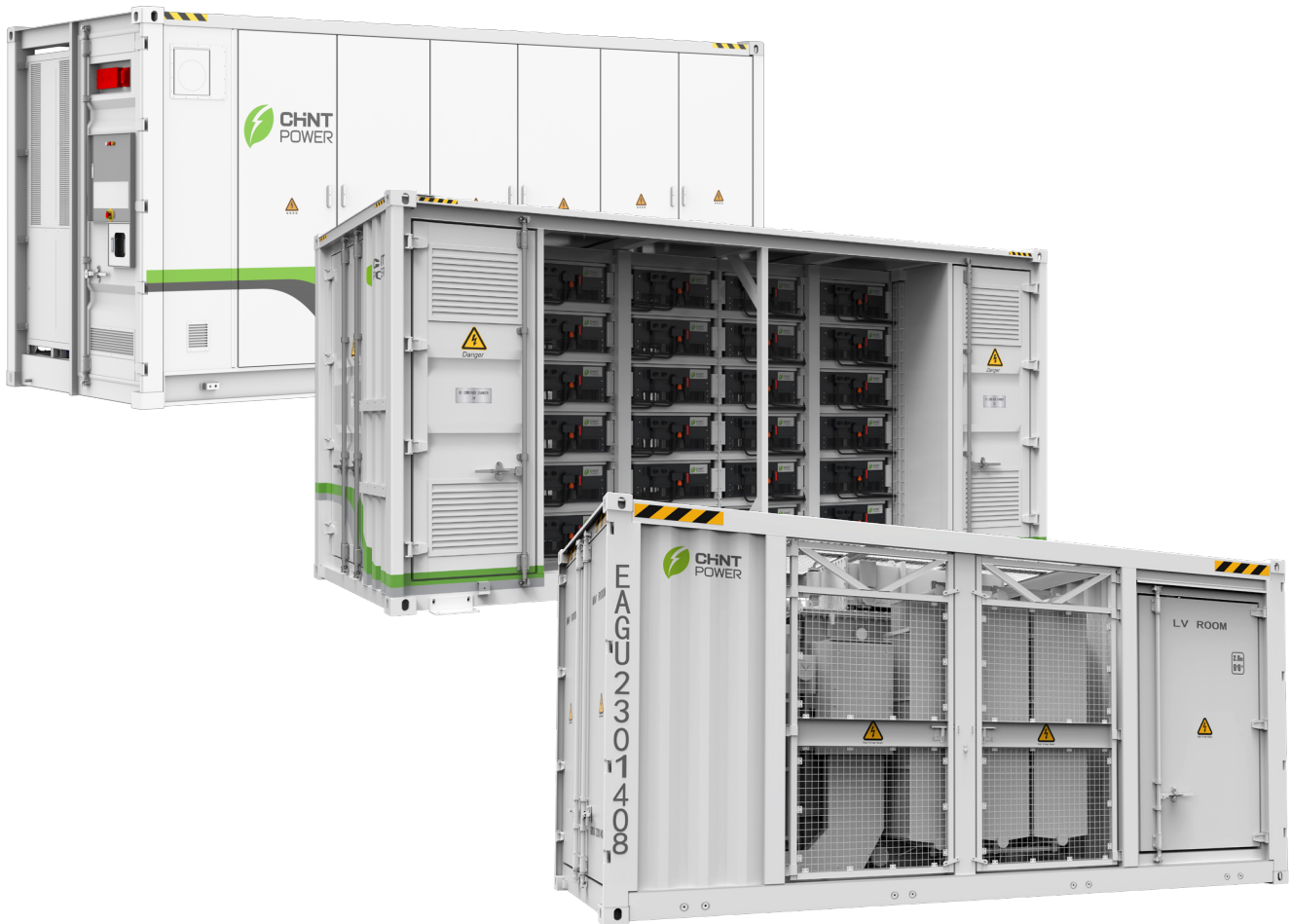


# CPS ES-9.6MW/20MWh-EU

## 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-EU
Model Name (Battery Container, PCS Skid, PMVS transformer)	Battery Container: CPS ES-5015KWH PCS Skid: CPS PSW4.8M-EU PMVS: CPS PSA9.6MO
<b>Battery Parameter</b>	
Battery Capacity	4x5MWh
Battery Cell	LFP 314Ah
Pack Configuration	1P52S
Battery Configuration	4x12P416S
Rate Voltage	1331.2V
Operating Voltage Range	1164~1497V
<b>PCS Parameter</b>	
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
<b>PMVS Parameter</b>	
Rated Input Voltage	800V
Rated AC Output Power	9.6MW
Medium Voltage Rating	6~35kV
Grid Frequency	50Hz
Grid Frequency Range	45~55Hz
Vector Group	Dy11-y11
Cooling Method	ONAN
Surge Protection	Type II
<b>System Parameter</b>	
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	-20°C to 50°C (derating from +45°C)
Operating Altitude	PCS: 3000m (no derating); Battery Container: 2000m; PMVS: 1000m
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
<b>Display and Communication</b>	
Communication	RS485 / Ethernet / CAN
Communication protocol	Modbus-TCP / RTU
<b>Safety</b>	
Certifications and Standards	Battery: IEC 62477 / IEC 61000 / IEC 62619 / IEC 63056 / ISO 14067 PCS: IEC61000 / IEC62477 / IEC62109 / IEC 62920 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.

# CPS PSW4.8M-EU

## Energy Storage System



### Key Features

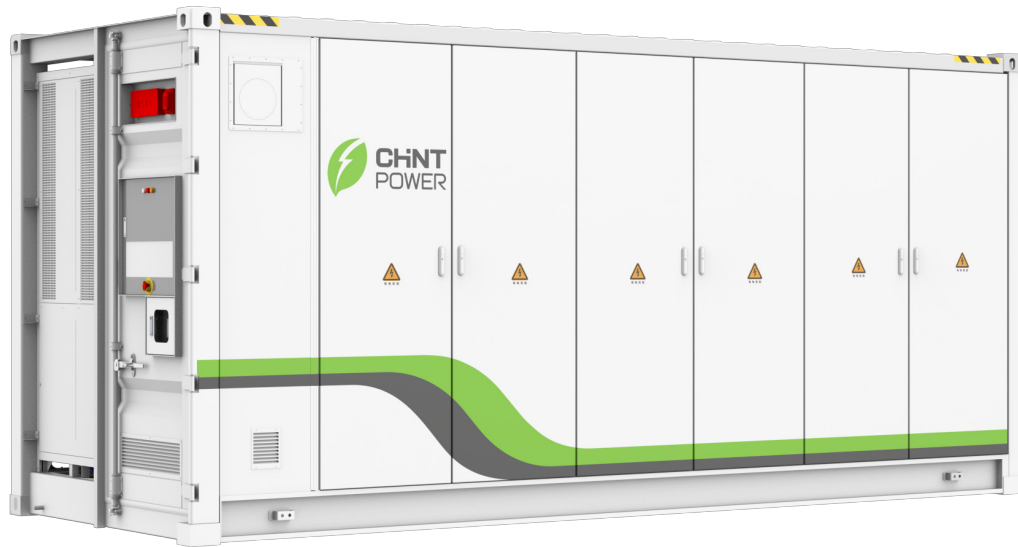
- 4.8MW Skid, with high power integration density
- PCS has IP66 protection degree, suitable for C5 environment
- Standard 20-foot container integration, pre-assembled and pre-adjusted in the factory, convenient for transportation and installation
- AC 800V output, compatible with photovoltaic and energy storage coupling solutions
- Wide DC voltage range, suitable for various batteries
- Modular design of the PCS, easy to maintain and expand

Model Name	CPS PSW4.8M-EU
<b>DC Parameter</b>	
Max.DC Input Voltage	1500V
Min.DC Input Voltage	875V
Operating DC input Voltage Range	950~1500V
Max.DC Input Current	24 x 218A
DC Disconnection Type	Load-rated DC Switch
<b>AC Parameter</b>	
Rated AC Output Power @ PF>0.99	24 x 200kW
Rated Output Voltage	800V
Output Voltage Range	704~880V
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
Power Factor	-1~+1
AC Current THD	<3%
DC Current Injection	<0.5% Inom
AC Surge Protection	Type II
<b>System Parameter</b>	
Dimensions (WxHxD)	6058 x 2896 x 2438mm
Weight	11T
Enclosure Protection Degree	IP54
Cooling Method	Variable speed cooling fans
Operating Temperature Range	-30°C to +60°C (derating from +45°C)
Operating Humidity	0~95%
Operating Altitude	3000m (no derating)
<b>Display and Communication</b>	
Communication	CAN / Ethernet / RS485
<b>Safety</b>	
Certifications and Standards	IEC61000 / IEC62477 / IEC62109 / IEC 62920

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

# CPS ES-5015KWH

## Battery Energy Storage System



### Key Features

- Fully integrated system with minimum on-site installation and commission efforts
- High energy density: 5 MWh in one 20ft container Multiple-point electrical linkage measures
- Easy to expand with CPS's modular and string design
- Integrated fast-acting fault protection
- Comprehensive fire prevention design to ensure system safety
- Smart cooling control to improve battery performance and lifecycle

Model Name	CPS ES-5015KWH
<b>Battery Parameter</b>	
Battery Capacity	5015.96kWh
Battery Cell	314Ah
Pack Configuration	1P52S
Battery Configuration	12 x 1P416S
Rate Voltage	1331.2V
Operating Voltage Range	1164~1497V
Maximum Power	2508kW
<b>System Parameter</b>	
Protection Degree	IP55
Cooling Method	Liquid Cooling
Operation Temperature	-25°C~50°C
Operating Humidity	0-95%, non-condensing
Operating Altitude	≤ 2000m
Dimensions (WxHxD)	6058 x 2896 x 2438mm
Weight	41.8T
Communication	RS485/Ethernet / CAN
Protocol	Modbus RTU / Modbus TCP / CAN
Auxiliary Power Input	3P+N 400Vac / 50kVA
<b>Safety</b>	
Compliance	IEC 62477 / IEC 61000 / IEC 62619 / IEC 63056 / ISO 14067
* Product specifications and dimensions may be updated based on the latest information provided and are subject to change without prior notice.	