



10MW PCS Integrated Substation

The products are used in large-scale energy storage and renewable energy industries , highly integrating PCS, transformers, switchgear , monitoring and protection, communication and power distribution systems within 40-foot high-cube containers, providing turnkey solutions . The complete set meets IEC 62271-202 (prefabricated substation) requirements and has obtained CE certification, the transformers comply with IEC 60076, energy efficiency meets IEC 60076-20 and EU 548 PEI efficiency level requirements .

Technical Parameters		Compatible with PCS	
Dimension(L×W×H)	12192mm×2438mm×2896mm	PCS Model	IES900-07-2510-C-S-EU,EH-5000-HB-UD,etc.
Weight	40T		
High and low voltage side voltage	33/0.69/0.69kV	Maximum efficiency	99%
Enclosure level	5	DC voltage operating range	1000~1500V
Environmental humidity(non-condensing)	0-95%	Maximum input current	4×2816A
Operating temperature	-30℃ -50℃	DC input channels	4
Communication interfaces	RS485/CAN/Ethernet,etc.	Rated AC Output Power	10500kW
Enclosure Protection Level	IP54	DC Current Component	<0.5%(Linear Balanced Load)
Transformer Capacity	10500kVA	Power Factor	>0.99(at Rated Power)
Operating Frequency	50/60Hz	Adjustable reactive power range	-100%-100%

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Customer Value



Excellent adaptability

F: The insulation safety factor is above 5, and the composite protection of "galvanizing + multi-layer coating" structure, thickness $\geq 200\mu\text{m}$. Equipped with dehumidification device, suitable for high condensation environment.

A: Rich experience in complex engineering operation.

B: Adapt to extreme environment.



Eco-friendly

F: Steel structure with integrated oil pool, switchgear can be filled with clean air, transformer with natural ester, low magnetostriction and low loss silicon steel sheets.

A: Avoid oil leakage, no pollution, low noise.

B: Energy-saving and environmental protection.



High compatibility

F: High-voltage scope: 12~40.5kV, dual or triple-winding structure ensures output voltage 0.4~1.14 kV. Flexible Interface matches different PCS brands, PCS interfaces can be reserved, and overall integration can be completed locally.

A: Voltage combination diversity.

B: Cater to diverse application scenarios.



Smart & High efficiency

F: Three-level topology, supports black start and off-grid V/F operation.

A: Maximum efficiency of 99%, full-load charge/discharge switching completed within 30ms.

B: Significantly reduces system losses and provides rapid response to grid dispatch.

Application Scenarios



BESS Substation