

13.8MW PCS Integrated Substation

Less Site Work, Less Space, Plug and Play



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13.8MW 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 HQ 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 .



Excellent Adaptability

Product adapts to extreme environment The insulation safety factor is above 5, and the composite protection of "galvanizing + multi-layer coating" structure, thickness ≥ 200μm. Equipped with dehumidification device, suitable for high condensation environment.



Eco-Friendly

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. Avoid oil leakage, no pollution, low noise.



High Compatibility

Voltage combination diversity caters to diverse application scenarios. 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.



Smart & High Efficiency

Three-level topology, supports black start and off-grid V/F operation. Maximum efficiency of 99%, full-load charge/discharge switching completed within 30ms. Significantly reduces system losses and provides rapid response to grid dispatch.

Key Specifications

Capacity	13.8MW
Container Type	40HQ
High and Low Voltage Side Voltage	33/0.69/0.69kV
Enclosure Level	5
Enclosure Protection Level	IP54
Transformer Capacity	13800kVA
Operating Frequency	50/60Hz
PCS Model	8×1725kVA, 4×3450kVA
Maximum Efficiency	99%
DC Voltage Operating Range	1000~1500V
Maximum Input Current	4X3827A (DC)
DC Input Channels	4
Rated AC Output Power	13800kW

Application Scenarios

BESS and Renewable Energy Plant

Project References



Bulgaria | BESS Project (YBM29-40.5/0.69-10000)



England | Trina BESS Project (YBM29-40.5/0.69-4400)