

ESS-PCS-1250H、ESS-PCS-1725H、 ESS-PCS-2500H

Grid-Following PCS (Outdoor)



High Security

AC/DC electrical isolation design.



Strong Adaptability of Power Grid

Fast power dispatching, supporting high/low voltage ride-through.



Maximum Efficiency

Three-level, highest efficiency, maximum efficiency > 99%.



Easy to Expand

Support multi-machine parallel operation.



Quick Response

Fast dynamic response, millisecond charge-discharge conversion time.

Product Model	ESS-PCS-1250H	ESS-PCS-1725H	ESS-PCS-2500H
Rated Power (kW)	1250	1725	2500
DC Voltage Range (Vdc)	1375	1897	2750
DC Side			
Max. DC Voltage (V)		1500	
Max. DC Current (A)	1403	1936	2×1403
Battery Voltage Range (V)		1000~1500	
Grid-Connected AC Side			
Rated Grid Voltage (V)		690, 3W+PE	
Grid Voltage Range		-15% ~ +10%	
Maximum AC Output Current (A)	1151	1588	2092
Rated Grid Frequency (Hz)		50	
THDi (at rated power)		<3% (I _{pn})	
Power Factor Adjustment Range		1 (leading) ~ 1 (lagging)	
Off-Grid AC Side			
Rated Off-grid Voltage (V)		630, 3W+PE	
Rated Frequency (Hz)		50	
Voltage Total Harmonic Distortion		<3% (linear load)	
Environmental Conditions			
Operating Temperature (°C)		-30~60 (derating above 45°C)	
Operating Humidity		≤95% (non-condensing)	
Operating Altitude (m)		≤4000 (derating above 2000m)	
System Data			
Isolation Method		Transformerless	
Maximum Efficiency		99%	
Ingress Protection Rating	IP65	IP55	IP55
Cooling Method		Air-Liquid Hybrid Cooling	
Communication Interfaces		RS485 / CAN / Ethernet	
Communication Protocols		Modbus-RTU / Modbus-TCP / IEC61850 / IEC104	
Noise (dB)		<80	
System Dimensions (W×H×D, mm)	1100×2300×1050	1100×2350×1050	1450×2350×1200
Weight (kg)	<1500	<1500	<2800
Certification		CQC + LVRT/HVRT (GB/T34120-2023)	