

ESS-PCS-1250、ESS-PCS-1725

Grid-Following PCS (Indoor)



High Security

AC/DC electrical isolation design.



Multiple Communication Protocols

Support IEC61850, Modbus, CAN2.0 and other communication protocols .



Efficiency

Three-level, maximum efficiency > 99%.



High Altitude Operation

Adaptable to work at an altitude of up to 4000m.



Quick Response

Fast dynamic response, millisecond charge-discharge conversion time.



Intelligent Air Cooling

Suitable for ambient temperature of -30 °C ~ 60 °C, no derating at 45 °C.



Easy to Expand

Support multi-machine parallel operation.



Rich Communication Interfaces

With Ethernet, RS485, CAN and other communication interfaces .

Product Model	ESS-PCS-1250	ESS-PCS-1725
Rated Power (kW)	1250	1725
DC Voltage Range (Vdc)	1375	1870
DC Side		
Maximum DC Voltage (V)	1500	
Maximum DC Current (A)	1936	
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)	1588	
Rated Grid Frequency (Hz)	50	
THDi (at rated power)	<3% (Ipn)	
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	IP20	
Cooling Method	Intelligent Air Cooling	
Communication Interfaces	RS485 / CAN / Ethernet	
Communication Protocols	Modbus-RTU / Modbus-TCP / IEC61850 / IEC104	
Noise (dB)	<80	
System Dimensions (W×H×D, mm)	1400 × 2000 × 800	
Weight (kg)	1491	
Certification	CQC + LVRT/HVRT (GB/T 34120-2023)	