

ESS-PCS-68-G、ESS-PCS-100-G、 ESS-PCS-125-G

Modular PCS (IGBT)



3S Deep Integration Design

Integrate EMS, BMS and PCS functions.



Ultra-low noise

Low noise < 60dB.



Multi-Machine Parallel Connection

Virtual synchronization technology, which can support multiple voltage sources in parallel.



Unbalanced Load

Support 100% unbalanced load.



Energy Management

It has the functions of anti-reverse flow, peak clipping and valley filling.



Integrated High-Voltage Box

PCS + High-voltage box integrated design, Enabling cluster-level battery management.

Product Model	ESS-PCS-68-G	ESS-PCS-100-G	ESS-PCS-125-G
DC Side			
DC Voltage Range (Vdc)		650-950	
Maximum DC Current (A)	192	153	192
AC Side			
Rated AC Power (kW)	68	100	125
Maximum Output Current (A)	216	174	216
THDi (at rated power)		<3% (I _{pn})	
DC Component		<0.5%	
Rated Grid Voltage (V)	400	220	400/380
Power Factor Adjustment Range		1 (leading) – 1 (lagging)	
Rated Grid Frequency (Hz)		50/60	
Isolation Method		Transformerless	
Wiring Method	3W+PE	3W+N+PE	3W+N+PE
Earthing Method	TT 220V	TN-S 400V	TN-S 400V
System Data			
Charge/Discharge Switching Time (ms)		<25	
Communication Protocol		RS485 / TCP / CAN2.0	
Protection Level		IP20	
Cooling Method		Intelligent Air Cooling	
Operating Temperature (°C)		-20~+45	
Operating Humidity		≤95% (non-condensing)	
Operating Altitude (m)	≤4000 (derated above 2000 m)		≤3000 (derated above 1000 m)
Noise Level (dB)		≤60	
System Dimensions (W×H×D mm)		900×320×800	
Weight (kg)		140	
Communication Protocols		Modbus RTU / TCP / CAN2.0	
Certification		CQC + High/Low Voltage Ride-through (GB/T34120-2023)	