

C&I ESS

125KW PCS With 241KWH LiFePO4
All-in-one Cabinet



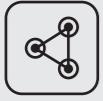
Product Features:



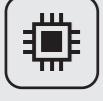
Higher Safe Performance and Longer Cycle Life
With breaker and fuse



ECONOMIC
Zero power loss through efficient temperature control and frequency variation.



Wide Compatibility
Compatible with most of the leading inverter brands



Advanced Battery Management System
Smart BMS from famous brands, to monitor the battery's temperature, current, prevent over-current and etc. Take good control of the charging and discharging of battery to max. the lifespan



Environmentally Friendly
From reduced carbon emissions to increased energy savings, we've got you covered. It will help reduce your carbon footprint by storing energy from renewable sources like solar power and wind power

Model	PNG125kW—241kWh
Battery Data	
Nominal Energy	241.15kWh
Nominal Voltage	768V
Battery Chemistry	Lithium Iron Phosphate (LiFePO4)
Cycle Life	≥8000 cycles (@25°C/0.5P)
Cell Specification	3.2V 314Ah
Battery Pack Energy	16.07kWh
String Configuration	1P240S
Number of Racks	1
Operation Voltage	672V~876V
Rated Charging Power	0.5P
Rated Discharging Power	0.5P
Safety	
Fire Suppression System	Aerosol fire extinguishing
Inverter Data	
Rated Power	125kW
Please Refer To The Pcs Section For More Details.	
General	
Dimensions (W*D*H)	1180*1360*2250mm
Weight	Approximately 2400kg
IP Rating	IP54
Cooling Method	Smart air cooling
Operation Temperature	-20°C ~+50°C
Storage Temperature	-20°C~+45°C
Relative Humidity	15%~90% (Non-condensing)
Operating Altitude	≤3000m
Communication Interfaces	LAN/CAN/RS485
Compliance	IEC 62619, IEC/EN 61000, UN 38.3, MSDS

Application Scenarios



Refrigerator



Air System



Lighting

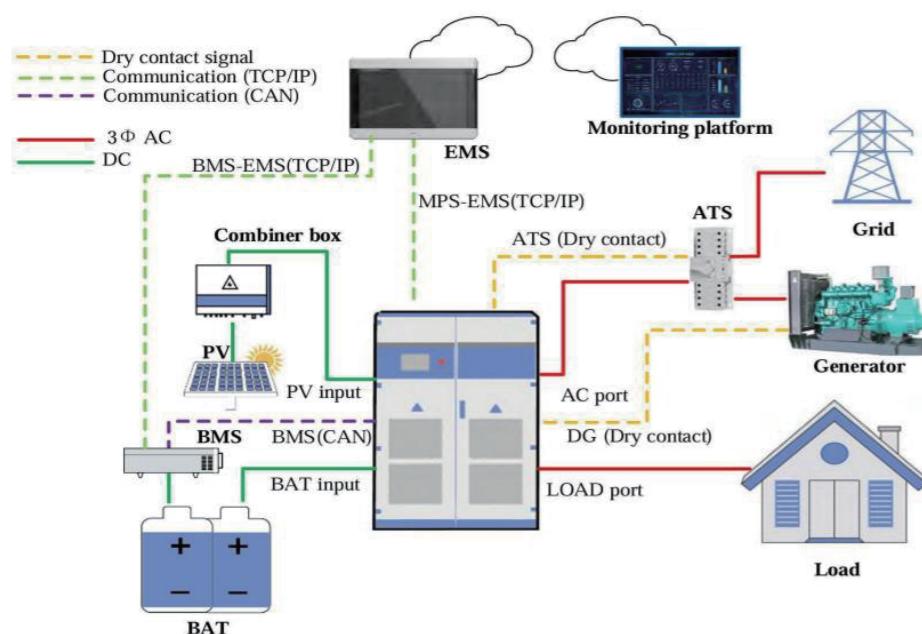


Small Home Appliances



C&I ESS

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Product Features:



PV / Wind Power Energy Storage/
Commercial & Industrial (C&I) Energy Storage / Grid-Side Energy
Storage / Solar-Integrated EV Charging / Microgrid



Model	PNG125kW—241kWh
DC Side Parameters	
DC voltage range	DC600V~1000V(Full - load voltage:DC630V-950V limited load voltage:DC600V-630V,DC950V-1000V)
Cycle Life	≥8000 cycles (@28°C, 0.5P/0.5P)
Full-load voltage range	DC630V~950V
Rated DC current	198A
Rated DC power	125kW
AC Side Parameters	
Rated AC power	125kW
Overload capacity	1.1 times (Ambient temperature ≤ 40°C)
Rated voltage	AC400V
Rated AC current	180A
AC access method	Three-phase four-wire
Grid voltage range	400V (-15%~+15%)
Grid frequency range	50Hz / 60Hz±2.5Hz
Total harmonic distortion rate of current	≤ 3% (full load)
Power factor	0.99/-1~1
Current DC component	≤0.5%
Charge and discharge conversion time	<100ms
AC Grid-disconnected Parameters	
AC grid-disconnected voltage	AC400V
AC voltage range	AC400V±3%
AC grid-disconnected frequency	50Hz/60Hz
Grid-disconnected output THDU	≤ 3% (linear load)
Unbalanced load capacity	100%
Other Parameters	
Maximum conversion efficiency	≥99%
Allowable ambient temperature	30°C~50°C (Full - load)
Allowable relative humidity	≤95% (No condensation)
Noise	≤75dB
Protection grade	IP20
Altitude	3000 m(≥2000m for limited load)
Size	W520mm×H240mm×D680mm
Weight	≤70KG
Cooling method	Forced air cooling
Wiring, air-out direction	Primary or secondary at the front air-in from front, air-out from rear (One wiring mode)
BMS communication interface	CAN or RS485
EMS communication interface	Network interface or RS485

