






C&I ESS

125KW Inverter With 261KWH 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	PNG100kW—261kWh	PNG125kW—261kWh
Battery Data		
Nominal Energy	261kWh	
Nominal Voltage	832V	
Battery Chemistry	Lithium Iron Phosphate (LiFePO4)	
Cycle Life	≥8000 cycles (@25°C/0.5P)	
Cell Specification	3.2V 314Ah	
Battery Pack Energy	52.24kWh	
String Configuration	1P260S	
Number of Racks	1	
Operation Voltage	728V~949V	
Rated Charging Power	0.5P	
Rated Discharging Power	0.5P	
Safety		
Fire Suppression System	Aerosol fire extinguishing	
Inverter Data		
Rated Power	100kW	125kW
Please Refer To The Pcs Section For More Details.		
General		
Dimensions (W*D*H)	1300*1450*1890mm	
Weight	Approximately 2600kg	
IP Rating	IP54	
Cooling Method	Liquid 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





Model	S6-EH3P100K10-NV-YD-H	S6-EH3P125K10-NV-YD-H
Input DC (PV side)		
Recommended max. PV array size	200kW	250kW
Max. usable PV input power	200kW	250kW
Max. input voltage	1000V	
Rated voltage	600V	
Start-up voltage	180V	
MPPT voltage range	150-950V	
Max. input current	10×42A	
Max. short circuit current	10×60A	
MPPT number/ Max. input strings number	10/20	
Battery		
Battery type	Li-ion	
Battery voltage range	300-950V	
Max. charge / discharge current	200A/100A+100A	
Number of battery ports	2	
Max. charge / discharge current of each port	100A	
Communication	CAN/RS485	

Model	S6-EH3P100K10-NV-YD-H	S6-EH3P125K10-NV-YD-H
Output AC (Grid side)		
Rated output power	100kW	125kW
Max. apparent output power	100kW	125kW
Rated grid voltage	3 / N / PE, 220V / 380V, 230V / 400V	
Rated grid frequency	50Hz / 60Hz	
Rated grid output current	152A / 144.3A	
Power factor	>0.99 (0.8lwading-0.8lagging)	
THDi	<3%	
Input AC (Grid side)		
Max. input current	250A	
Output AC (Back-up)		
Rated output power	100kW	125kW
Max. apparent output power	1.2 times of rated power, 10 mins; 1.4 times of rated power, 100 s; 1.6 times of rated power, 10 s; 2 times of rated power, 200 ms	1.2 times of rated power, 100 s; 1.4 times of rated power, 10 s; 1.6 times of rated power, 200 ms
Back-up switch time	<10ms	
Rated output voltage	3 / N / PE, 220V / 380V, 230V / 400V	
Rated frequency	50Hz / 60Hz	
THDv (@linear load)	<2%	
Input AC (Generator)		
Max. input power	100kW	125kW
Rated input current	151.9A / 144.3A	189.9A / 180.4A
Rated input voltage	3 / N / PE, 220V / 380V, 3 / N / PE, 230V / 400V	
Rated input frequency	50Hz / 60Hz	
Efficiency		
Max. efficiency	125kW	
EU efficiency	189.9A / 180.4A	
BAT charged /discharged to AC max. efficiency	3 / N / PE, 220V / 380V, 3 / N / PE, 230V / 400V	
Protection		
Anti-islanding protection	Yes	
Output over current protection	Yes	
Short circuit protection	Yes	
Integrated DC switch	Yes	
DC reverse-polarity protection	Yes	
Surge protection	DC Type II / AC Type II	
Integrated AFCI 2.0	Optional	
Protection class/ Over voltage category	I / DC II , ACIII	

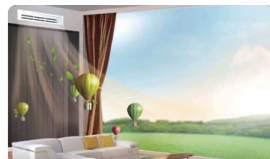


Model	S6-EH3P100K10-NV-YD-H	S6-EH3P125K10-NV-YD-H
General Data		
Max. allowable phase imbalance (grid & back-up)	100%	
Max. power per phase (grid & back-up)	33.33kW	41.66kW
Dimensions (W x H x D)	1174×814×400 mm	
Weight	170 kg	
Topology	Transformerless	
Operating ambient temperature range	-25°C~ +60°C	
Relative humidity	0-100%	
Ingress protection	IP66	
Cooling concept	Intelligent fan-cooling	
Max. operation altitude	3000 m	
Grid connection standard	G99, VDE-AR-N 4105 / VDEVO124, EN 50549-1&2 / EN 50549-10, VDE0126 / UTEC15 / VFR:2019, NTS631 / RD 1699 / RD 244 / UNE206006 / UNE206007-1, CE10-21,C10/11.NRS097-2-1, TOR, EIFS2018.2, IEC62116, IEC61727, IEC60068, 1EC61683, EN 50530, MEA, PEA, PORTARIA N° 140, DE 21 DE MARCO DE 2022	
Safety/ EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-2&4, EN 55011	
Features		
PV connection	MC4 Quick connection plug	
Battery connection	Terminal connector	
AC connection	Terminal block	
Display	7.0" LCD display & Bluetooth + APP	
Communication	CAN, RS485-115200, Ethernet, Optional: Wi-Fi, Cellular, LAN	

Application Scenarios



Refrigerator



Air System



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