

All-In-One C&I PV ESS Cabinet

VN-HES120-HC241



Three phase 100%
unbalanced load



PACK-level plus cabin-level fire
protection, safe and controllable



Cloud operation and
maintenance



Flexible expansion
Easy installation and maintenance



PV



Wind



Industrial
and
Commercial



Grid Side

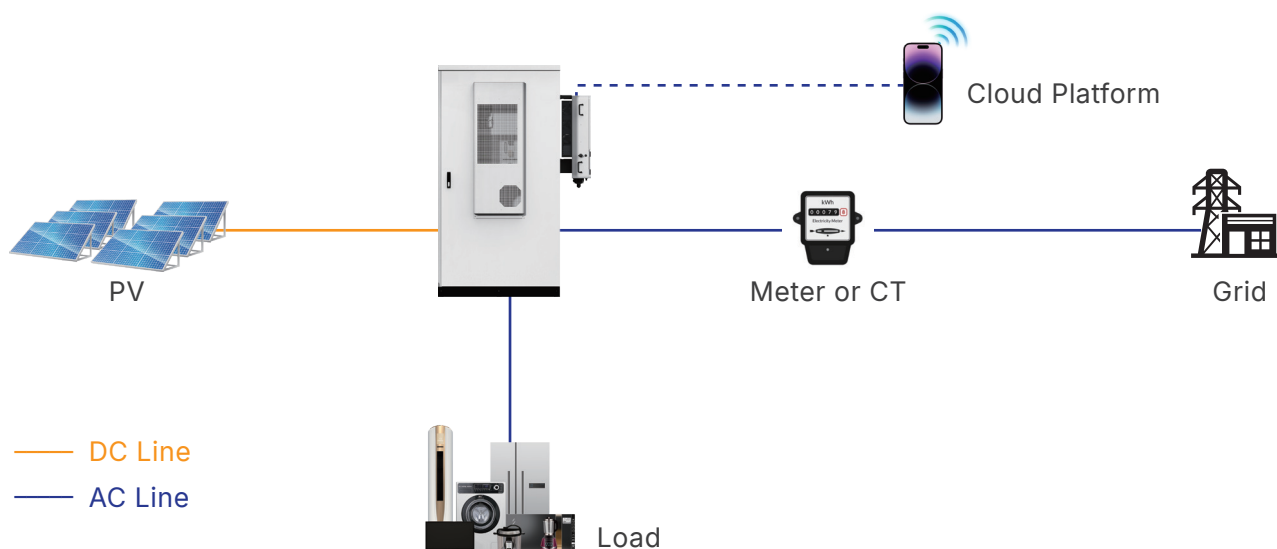


Hybrid
Charging



Grid

► Connect Diagram



Model	VN-HES120-HC241
System Specification	
Rated Output Power	120kW
System Capacity	241.15kWh
Battery Type	LiFePO4
Battery Cell	3.2V/314Ah
Connection Method	1P240S
Battery Cluster	768V/314Ah
Max. Charging/Discharging Current	157A
Operating Temperature Range	Charge -20~55°C; Discharge 0~55°C
Cycle Life	>8000cycles
Input (PV)	
Max. Input Power	192000Wp
Max. Input Voltage	1100V
Start-up Voltage	200V
Rated Voltage	620V
MPPT Voltage Range	180V-1000V
Number of MPP Trackers	8
Number of String per MPPT	16
Max. Current per MPPT	8×40A
Max. Short Circuit Current per MPPT	8×60A
Output (On-Grid)	
Rated Output Power	120kW
Max. Output Power	132kVA
Max. Output Current	200A
Max. Input Power from Grid	180kW
Max. Input Current from Grid	272.8A
Rated Grid Voltage	3/N/PE, 230V/400Vac
Rated Grid Frequency	50Hz / 60Hz
THDi(@Rated Power)	<3%
Power Factor	0.8 leading ~ 0.8 lagging
Battery	
Battery Type	Lithium
Battery Voltage Range	300V~850V
Max. Charge / Discharge Power	132kW
Max. Charge / Discharge Current	157A
Communication	CAN / RS485
Output (EPS)	
Rated Output Power	120kW
Max. Output Current	182A
Peak Output Power, Time	1.5 times / 10s
Switch Time	<10ms
Rated Voltage	3/N/PE, 230V/400Vac
Rated Frequency	50Hz / 60Hz
Max.AC Passth Rough Current	150A
Output (Generator)	
Max. Output Power	120kW
Max. Output Current	182A
Rated Voltage	3/N/PE, 230V/400Vac
Rated Frequency	50Hz / 60Hz
Efficiency	
Max. Efficiency	98.40%
European Efficiency	97.50%
Battery Charge /Discharge Efficiency	97.50%
Protection	
Protection	DC Switch, DC Reverse Polarity Protection,Anti-islanding Protection,AC Short Circuit Protection, Residual Current Monitoring, Ground Fault Monitoring, Over Current /Voltage Protection, BatteryActive Function, I-V Curve Scan
Surge Protection	Type II
AFCI Protection	Optional
General Data	
Display	LCD/LED
Battery Cabinet Weight	2300kg
Battery Cabinet Dimension	1210x1245x2300mm
Inverter Weight	92kg*2
Inverter Dimension	620×900×300mm*2
OperatingTemperature Range	-30~+60°C
Cooling Method	Smart Air Cooling
Protection Degree	Inverter IP66, Battery Cabinet IP54
Max. Operating Altitude	4000m
Relative Humidity	0~100%
Self-consumption	<15W
Topology	Transformerless