



VN-50K-CH200

C&I Outdoor Integrated Cabinet



Supports Photovoltaic Access



Multiple communication methods support remote upgrades.



Ultra-high energy density, compact size, easy installation and transportation.



Modular design for flexible expansion and easy maintenance.



Supports 100% unbalanced loads and 110% long-term overloads.



Adjustable output power, configurable charge and discharge power, strong grid adaptability.

Model		VN-50K-CH200
Battery Parameters		
Usable Energy		200kWh
Cell Type		LFP(LiFePO4)
Battery Module Capacity		14.336kWh
Number of Battery Modules		14
Rated Voltage		716.8V
Max. Charge/Discharge Current		140A
PV Input Parameters		
Max. Input Power		80kW
Max. Input Voltage		1000V
MPPT Voltage Range		150-850V
Startup Voltage		180V
Rated Input Voltage		600V
Max. Input Current per MPPT		36A
Max. Short-circuit Current per MPPT		55A
Number of MPPTs		4
Number of Strings per MPPT		2
Grid-tied Output Parameters		
Rated Output Power		50kW
Max. Output Power		55kW
Rated Output Apparent Power		50kVA
Rated Output Voltage		400/380V
Output Voltage Frequency		50Hz
Max. Grid-tied Output Current		72.5A
Max. Input Current		79.8A
Power Factor		~1
Total Current Harmonic Distortion		<3%
Off-grid Output Parameters		
Rated Off-Grid Apparent Power		50kVA
Max. Off-Grid Apparent Power		55kVA
Max. Output Current		79.8A
Rated Output Voltage		400/380V
Rated Output Voltage Frequency		50Hz
Total Voltage Harmonic Distortion		<3%
Efficiency		
Max. PCS Efficiency		98.00%
System Efficiency		95.00%
Protection		
PV Reverse Polarity Protection		Integrated
Residual Current Monitoring		Integrated
Battery Reverse Polarity Protection		Integrated
Anti-Islanding Protection		Integrated
AC Over Current Protection		Integrated
AC Short Circuit Protection		Integrated
DC Switch		Integrated
DC Surge Protection		Level 2
AC Surge Protection		Level 3
Basic Parameters		
Operating Temperature Range		-25~+55°C
Relative Humidity		0~95%
Max. Operating Altitude		3000m
Cooling Method		Intelligent Air Cooling
Human-Machine Interface		LED,WLAN+App
BMS Communication Method		RS485,CAN
Communication Protocol		RS485
Communication Interface		CAN
Weight		<1300kg
Dimensions (W×H×D)		1179×1104×2394mm
Topology		Non-Isolaed
Protection Level		IP55
Firefighting System		Aerosol
Installation Method		Floor-mounted