

CONTAINER ENERGY STORAGE SYSTEM

Reliable, efficient and economical solution.



C&I Peak Shaving and Valley Filling



Emergency Power Supply



Grid Side Peak Regulation and Frequency Modulation

Key Strengths

- Multiple working modes can be flexibly set.
- Support real-time online monitoring of system status.
- Integrated design, easy to transport and install, flexible deployment.
- Support simultaneous access to load, battery, grid, DG, and PV.
- Support battery management system and comprehensive thermal management.
- The electrical compartment and battery compartment are separated, preventing the spread of thermal runaway.

Model	VN-C500K-1M		VN-C1000K-2M	
AC Data				
Rated Power	500kW		1000kW	
Rated Voltage	400V			
Rated Current	722A		1445A	
Voltage Range	320~460V			
Rated Frequency	50/60Hz			
Frequency Range	45-55/55-65Hz			
THDi (On-grid)	<3%			
THDu (Off-grid)	≤ 1% Linear; ≤ 5% Non-linear			
Power Factor	1 Leading~1 Lagging(Settable)			
Overload Capacity	110% Long-term			
AC Output	3W+N+PE			
Isolation Transformer	315/400			
On / off-grid Switching	Support			
PV Data				
Max. PV Input Voltage	1000V			
Max. PV Power	600kW/660kW/720kW		1200kW/1320kW/1440kW	
MPPT Operating Voltage Range	250~850V			
Buck-boost Mode	Support			
Battery Data				
Cell Type	3.2V/280Ah/LFP			
Nominal Voltage	768V/1P240S			
Nominal Energy	1.0752MWh		2.1504MWh	
Working Voltage Range	672~850V			
Max. Charge and Discharge Rate	0.5C@25°C			
Number of Battery Cycles	≥6,000			
System Data				
System Specification	500kW/1075.2kWh (1000kWh)		1000kW/2,150.4kWh (2000kWh)	
Dimensions (W×D×H)	6058×2438×2896mm		12192×2438×2896mm	
Net Weight	21000kg		38000kg	
Operating Temperature	0~+45°C			
Relative Humidity	0~95% (Non-condensing)			
Ingress Protection	IP54			
Noise Emission	<75dB			
Max. Operating Altitude	5000m (>3000 Derating)			
Cooling	Intelligent Air Cooling			
Fire Extinguishing System	FM200/NOVEC1230(optional)			
Display	7" device display +10" EMS display +10" BMS display (configurable)			
EMS Communication	RS485, TCP/IP			