



VN-10KFP3-LM20/32/48

Mobile All In One Solar Energy System



Reliable

High discharge power, Forced air cooling
Storage Temperature -10°C to 55°C



Eco-Friendly

Non-toxic materials
Pollution-free



Fast Installation

All-In-One design
floor-standing rollers for mobility, no wiring



Flexible

Modular, Max. 6 in parallel, Max. PV
Power 90kW, Residential/commercial use



Convenient

Auto networking, easy maintenance
Remote monitoring, firmware upgrades



Safer

Cobalt-free LFP battery
Intelligent BMS, long lifespan, high efficiency

Model	VN-10KFP3-LM20		VN-10KFP3-LM32	VN-10KFP3-LM48
AC Input Parameters				
Rated Voltage	230/400Vac, Three Phase			
Voltage Range	Single Phase 170-280Vac, Three Phase 305-485V			
Frequency	50/60Hz			
Bypass Overload Current	29A			
AC Output Parameters				
Rated Output Power	10000W			
Rated Output Voltage	400Vac			
Rated Frequency	50/60Hz			
Instantaneous Max. Power	20000VA			
Battery Parameters				
Battery Type	LiFePO ₄			
Battery Capacity	20.48kWh	32.15kWh	48.23kWh	
Battery Rated Voltage	51.2V			
Discharge Cut-off Voltage	42.4V			
Charge Cut-off Voltage	58.4V			
Max. Charging Current	220A			
PV Input Parameters				
Max. PV Power	7500W+7500W			
MPPT Voltage Range	200-650V			
Open Circuit Voltage	800Vdc			
Max. Charging Current	22A+22A			
MPPT Quantity	2			
System Parameters				
On-grid and Off-grid Switching Time	10ms			
Output Waveform	Pure Sine Wave			
Parallel Quantity	6			
Motor Load Capacity	6HP			
PV Charging Efficiency	97%			
Mains Charging Efficiency	94%			
No-load Power Consumption	130W			
Overload Protection	<1.1 times, 5min ; <1.25 times, 10s ; >1.25 times, 5s			
Mechanical Parameters				
Dimension	650×700×1500mm			
Weight	450kg	610kg	770kg	
Communication	RS485/WiFi/GPRS			
Environmental Parameters				
Humidity	5%-85%			
Working Temperature	0°C~55°C			
Storage Temperature	-10°C~+55°C			
Protection Level	IP20, indoor installation			
Cooling Method	Forced air cooling			
Noise	<60dB			