



VN-3.5/5.6KHP1-LM5/10/15/20

Mobile All In One Solar Energy System



Perfect Compatibility

Suitable for a variety of application scenarios



Premium Cell

Tier one new Grade A only



Fast Installation

Plug & Play battery interface



Compact Design

Mobile type with small footprint



Safety

BMS & Breaker two level protection



Long Life

8000 cycles long working lifespan

Model	VN-3.5KHP1-LM5	VN-3.5KHP1-LM10	VN-5.6KHP1-LM10	VN-5.6KHP1-LM15	VN-5.6KHP1-LM20
Battery Technical Specification					
Battery Type	LiFePO ₄				
Number of Batteries	1	2	2	3	4
Battery Energy	5.12kWh				
System Energy	5.12kWh	10.24kWh	10.24kWh	15.36kWh	20.48kWh
Battery Voltage	51.2V				
Battery Capacity	100Ah				
Weight	45kg				
Dimension (W/D/H)	440×443×143mm				
Battery Rated Voltage	51.2V				
Battery Working Voltage Range	44.8 ~ 56.8V				
Charge/Discharge Current	50A				
Max.Charge/Discharge Current	100A				
Cycle Life	≥6000 (25°C±2°C, 0.5C / 0.5C, 80%DOD)				
PV Charge					
Max.PV Array Power	5000W		6000W		
Rated Output Power	3500W		5600W		
Max. PV Array Open Circuit Voltage	500 VDC				
MPPT Range @ Operating Voltage	60Vdc - 450Vdc				
MPPT Tracker Number	1				
Grid Output (AC)					
Nominal Output Voltage	220/230/240 VAC				
Output Voltage Range	184 - 264.5 VAC or 195.5 -253 VAC (Selectable)				
Nominal Output Current	8.7A		23A		
Power Factor	> 0.99				
Efficiency					
Max. Conversion Efficiency (DC/AC)	95%				
Off-Grid , Hybrid Operation					
Acceptable Input Voltage Range	90-280 VAC or 170 -280 VAC				
Frequency Range	50 Hz/60Hz (Auto Sensing)				
Max. AC Input Current	30A		40A		
Battery Mode Output(AC)					
Nominal Output Voltage	220/230/240 VAC				
Output Waveform	Pure Sine Wave				
Efficiency (DC to AC)	93%				
General Data					
Communication	RS485/WIFI/GPRS				
Charge Temperature	0 ~ 55°C				
Discharge Temerature	-20°C ~ 55°C				
Operating Temperature	-10°C ~ 50°C				
Relative Huidity	5%~86%RH				
Altitude	≤4000m				
Cooling Mode	Force-Air Cooling				
Ingress Protection Rating	IP20				
Weight	65kg	84kg	84kg	110kg	170kg
Dimension (W/D/H)	600×650×515mm			600×650×840mm	
Recommended Operation Environment	Indoor				
Certification	CE/IEC/UL/UN38.3/MSDS				