

ENERGY STORAGE SYSTEM

5kW Off-Grid Solar Inverter With Scalable 5kWh Lithium-Ion Battery

- Equipped with BMS communication port for battery monitoring
- Built-in powerful solar & AC charger 100A shortens charging time
- Wall-mounted scalable Lithium-ion battery module guarantees safety and reliability
- Scalable battery module design up to 16 units
- IP65 design for battery module
- Built-in anti-dust kit guarantees inverter operation in robust applications

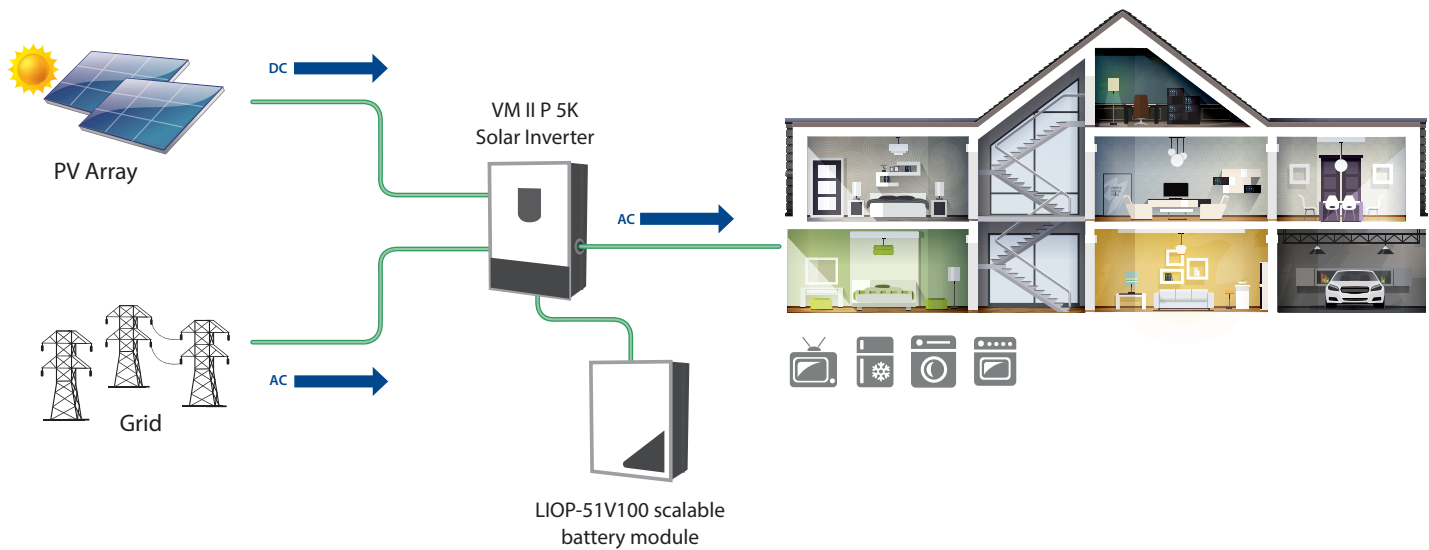


VM II P 5K



LIOP-51V100
5kWh battery module

System Diagram



5kW Off-Grid Inverter With Scalable 16 Pcs Of Battery Modules



ENERGY STORAGE SYSTEM SPECIFICATIONS

MODEL	VM II P 5K
Rated power	5000VA/5000W
INPUT	
Voltage	230 VAC
Selectable voltage range	170-280 VAC (For personal computers) ; 90-280 VAC (For home appliances)
Frequency range	50Hz/60Hz (Auto sensing)
OUTPUT	
AC Voltage regulation (Batt. mode)	230 VAC $\pm$ 5%
Surge power	10000VA
Efficiency (Peak)	93%
Transfer time	10 ms (For personal computers); 20 ms (For home appliances)
Waveform	Pure sinewave
BATTERIES	
Battery voltage	48 VDC
Floating charge voltage	54 VDC
Overcharge protection	63 VDC
SOLAR CHARGER & AC CHARGER	
Solar charger type	MPPT
Maximum PV array open circuit voltage	500 VDC
Maximum PV array power	50000W
Maximum PV input current	18A
MPP Range @ Operating voltage	120 ~ 450 VDC
Maximum solar charge current	100A
Maximum AC charge current	100A
Maximum charge current	100A
PHYSICAL	
Dimension HxWxD (mm)	440 x 300 x 120
Net weight (kg)	10
Communication interface	RS232/RS485, opsiyonel WiFi
ENVIRONMENT	
Humidity	5% to 95% Relative Humidity (Non-condensing)
Operating temperature	-10°C - 50°C
Storage temperature	-15°C - 60°C

LIOP-51V100 Lithium-ion Battery Specification

MODEL		LIOP - 51V100
Battery Cell Technology		Lithium Iron Phosphate
Nominal Voltage		51.2 V
Battery Capacity		100Ah
Max. Continuous Charging / Discharging Current		100A @ 25°C
Max. Charging Voltage		57.6 V
Max. Discharging Voltage		43.2 V
Max. Parallel Unit		16
Dimension, HxWxD (mm)		500 x 450 x 140
Net Weight (kg)		43
ENVIRONMENT		
Operation Temperature	Charge	0°C~45°C
	Discharge	-20°C~60°C (>45°C derating)
Operation Humidity		5% ~ 95% RH (non-condensing)
Operation Air Pressure		61 kPa~ 113 kPa
Lifecycle		≥ 5000 cycles @25°C 0.5C, 80% DOD
MANAGEMENT		
IP Protection		IP65
BMS Communication		RS485, RS232, CAN
Safety Standard		EN IEC 61000-6-3, EN IEC 61000-6-1, EN IEC 61000-3-2, IEC 61000-3-3, UN38.3