

Solar off-grid inverter with hybrid controller

3kVA-5kVA

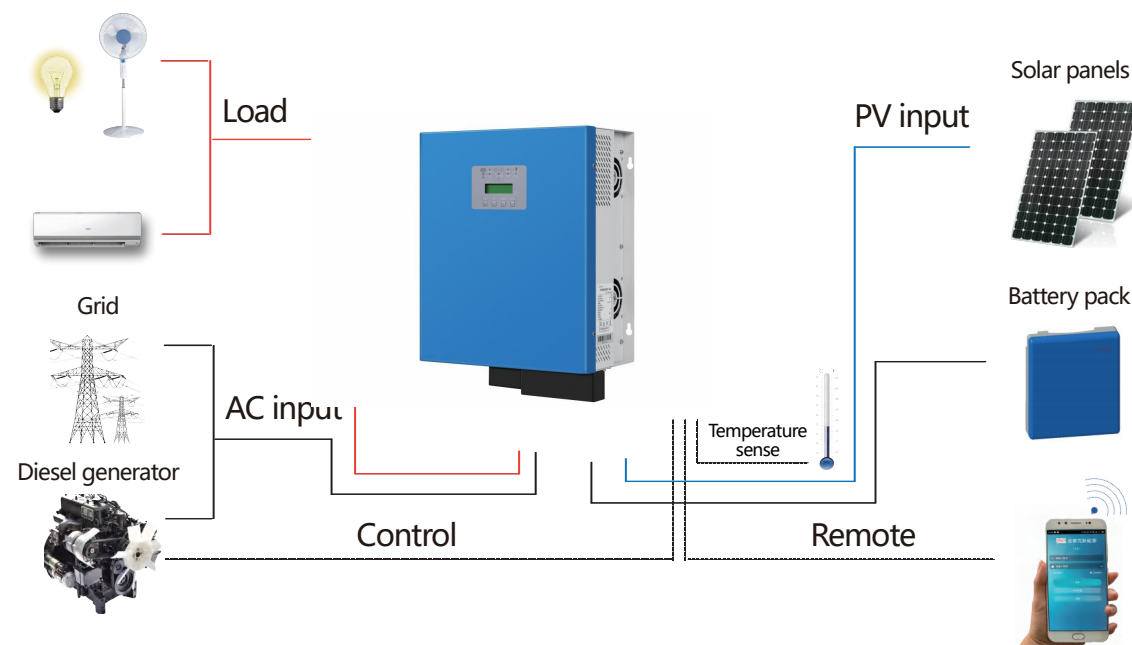


Product introduction

The solar inverter is a solar hybrid off grid inverter, which integrates solar charging, AC charging, inverter output, battery management and AC bypass switching.

- It has an intelligent energy management system (EMS) with mains (AC)/diesel engine (DG) input, solar input charging and battery charge and discharge control.
- With power saving mode (ECO) and backup power supply (UPS) mode, to meet the energy demand of different scenarios.
- Pure sine wave output, seamless switching between bypass power supply and inverter output.
- Built-in MPPT charge controller, MPPT efficiency>99%.
- LCD+LED display, visually display the operating status of the machine, easy to operate.
- Using low frequency isolation design, strong overload capacity, wide load practicability.
- The max.solar charging current is 80A, and the photovoltaic configuration capacity is large.
- Various battery configurations, gel batteries or lithium batteries are optional.

The product is mainly used for short-term and long-term power supply for households in areas where there is no electricity or lack of electricity.



Model	PVS3KLF24V-V2	PVS3KLF48V-V2	PVS4KLF48V-V2	PVS5KLF48V-V2
PV Input				
Max. PV array input voltage	180Vdc			
Recommended input power	3500W	5000W	7000W	7000W
MPPT voltage range	35-145Vdc	65-145Vdc		
Battery				
Rated voltage	24Vdc	48Vdc		
Max. charge current	80A	80A	80A	80A
Efficiency	≥97%			
Type	Gel/Lithium			
Inverter Output				
Rated output capacitor	3000VA	3000VA	4000VA	5000VA
Peak output capacity	9000VA	9000VA	12000VA	15000VA
Rated output power (linear load)	3000W	3000W	4000W	5000W
Output voltage	220Vac or 230Vac/115Vac or 240Vac/120Vac			
Rated frequency	50/60Hz (±3%)			
Standby loss	≤10W			
Max. efficiency	93%			
Total harmonic distortion (THD)	<3%			
Rated current	13.5A	13.5A	18A	22.5A
Current peak factor	3:1			
Overload	125%@rated power, 70s;150%@rated ,20s; 200%@rated ,5s;over 300%@rated,0s.			
AC Input				
Voltage and frequency	230Vac±20%,50/60Hz (±3%)			
Max. charge current	30A	40A	40A	40A
Grid pass-by				
Input voltage	230Vac±20%	230Vac±20%	230Vac±20%	230Vac±20%
Switching time	0ms			
Mechanical data				
Dimension(W*D*H)(mm)	440*370*190mm			
Weight	28kg	28kg	30kg	33kg
Other				
Protection level	IP21			
Autible noise	<60dB			
Cooling method	Forced cooling			
Operate temp.	-20 ~ +50℃			
Storage temp.	-25 ~ +70℃			
Status indicator	LCD+LED			
Interface	GPRS/RS485/CAN(optional)			
Elevation	2000m(>2000m derating operate)			

Solar off-grid inverter with hybrid controller (high frequency)

PVS5KHF48V-V1series

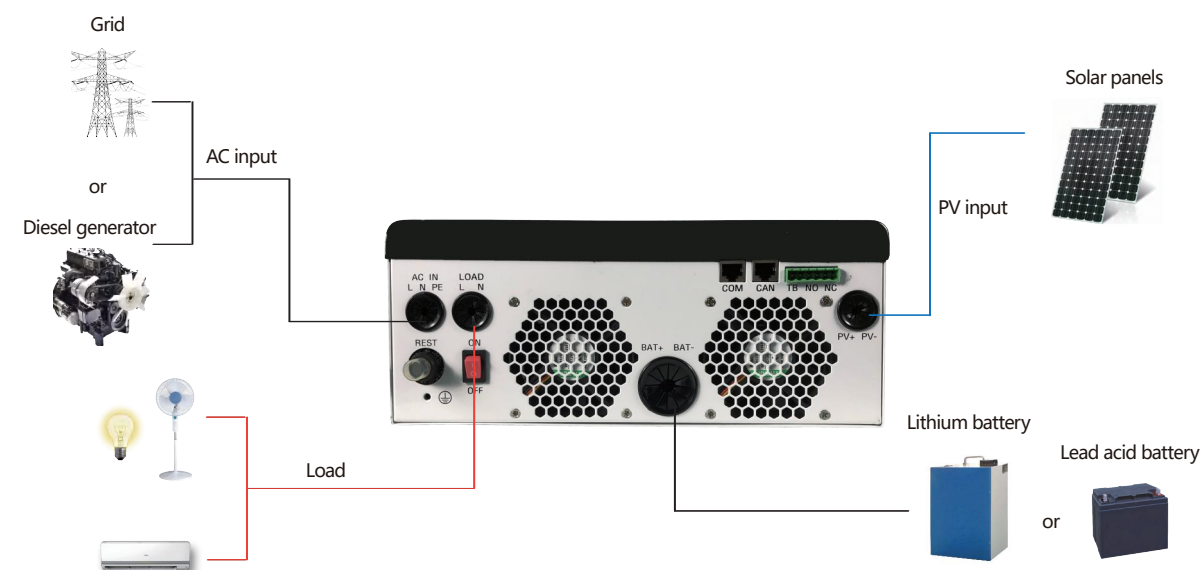


Product introduction

The solar off-grid inverter with hybrid controller (high frequency) integrates solar charging, AC charging, inverter output, battery management and AC bypass switching.

- It has an intelligent energy management system (EMS) with mains (AC)/diesel engine (DG) input, solar input charging and battery charge and discharge control.
- With power saving mode (ECO) and backup power supply (UPS) mode, to meet the energy demand of different scenarios.
- Pure sine wave output, seamless switching between bypass power supply and inverter output.
- Built-in MPPT charge controller, MPPT efficiency>99%.
- LCD+LED display, visually display the operating status of the machine, easy to operate.
- Using high frequency isolation design, strong overload capacity, wide load practicability.
- The max.solar charging current is 80A, and the photovoltaic configuration capacity is large.
- Various battery configurations, gel batteries or lithium batteries are optional.

The product is mainly used for short-term and long-term power supply for households in areas where there is no electricity or lack of electricity.



Model	PVS5KHF48V-V1
PV Input	
Max. PV array input voltage	480Vdc
Recommended input power	7000W
MPPT voltage range	150~450Vdc
Battery	
Rated voltage	48Vdc
Rated charge current	80A
Efficiency	≥97%
Type	Gel/Lithium
Inverter Output	
Rated output capacitor	5000VA
Peak output capacity	15000VA
Rated output power (linear load)	5000W
Output voltage	220Vac or 230Vac
Rated frequency	50/60Hz (±3%)
Standby loss	≤10W
Max. efficiency	93%
Total harmonic distortion (THD)	<3%
Overload	125%@rated power, 70s;150%@rated ,20s; 200%@rated ,5s;over 300%@rated,0s.
AC Input & Grid pass-by	
Voltage and frequency	230Vac±20%,50/60Hz (±3%)
Max. charge current	60A
Switching time	≤10ms
Mechanical data	
Dimension(W*D*H)(mm)	315mm*430mm*120mm
Weight	10kg
Other	
Protection level	IP21
Autible noice	<60dB
Cooling method	Forced cooling
Operate temp.	-20 ~ +50°C
Storage temp.	-25 ~ +70°C
Status indicator	LCD+LED
Interface	RS485
Elevation	2000m(> 2000m derating operate)