

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

PVS5KHF48V-V1series

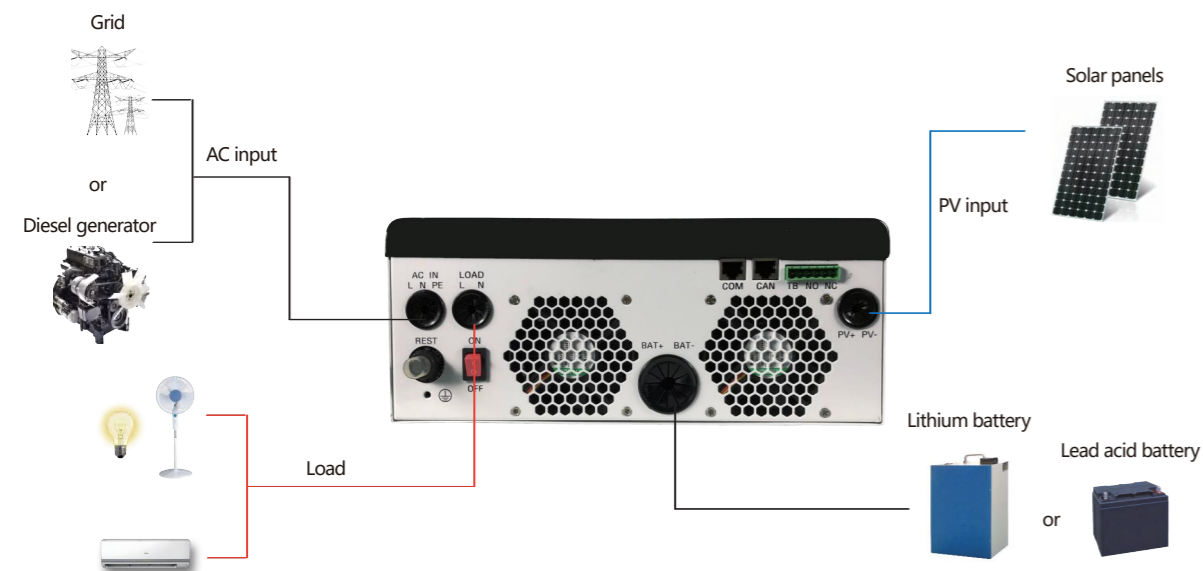


Product introduction

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 noise	<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)