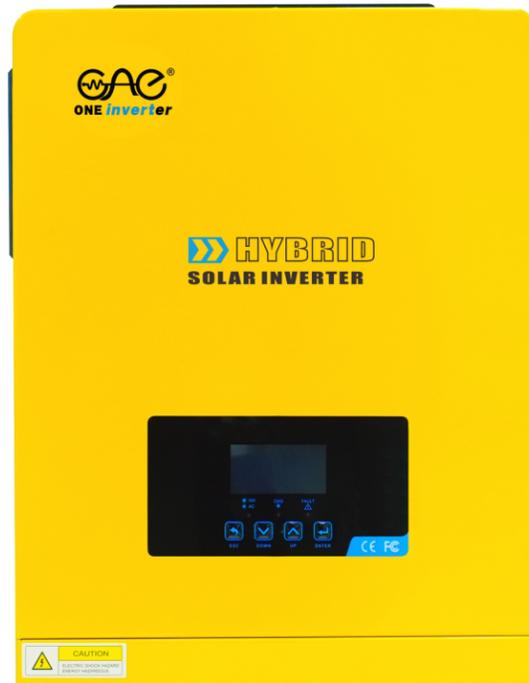


Hybrid Solar Inverter HVM Series



Smart control

Smart control mode, auto switch for different demand
usb communication portal



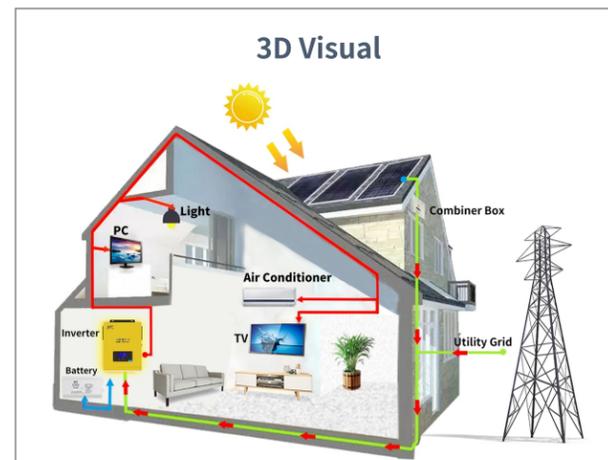
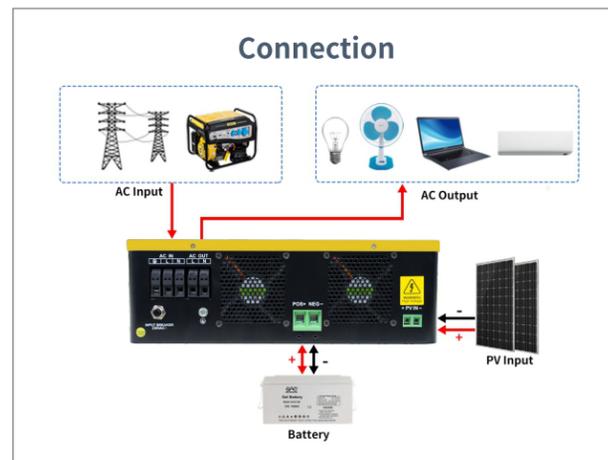
Wide PV Range

30-450v panels quantity depends on different situations



Charger

Inbuilt 60A AC charger
Inbuilt 80A MPPT solar charger



Technical Specification

Model	HVM-122008	HVM-243208
Rated Power	1.6KW	3KW
Line Mode Specifications		
Input Voltage Waveform	Sinusoidal (utility or generator)	
Nominal Input Voltage	230VAC	
Low Loss Voltage	170Vac±7V(UPS);90Vac±7V (Appliances)	
Low Loss Return Voltage	180Vac±7V(UPS);100Vac±7V(Appliances)	
High Loss Voltage	280Vac±7V	
High Loss Return Voltage	270Vac±7V	
Max AC Input Voltage	300Vac	
Nominal Input Frequency	50Hz/60Hz (Auto detection)	
Low Loss Frequency	40±1Hz	
Low Loss Return Frequency	42±1Hz	
High Loss Frequency	65±1Hz	
High Loss Return Frequency	63±1Hz	
Output Short Circuit Protection	Circuit Breaker	
Efficiency (Line Mode)	>95%(Rated R load, battery full charged)	
Transfer Time	10ms typical (UPS);20ms typical (Appliances)	
<p>Output power derating: When AC input voltage drops to 170V the output power will be derated.</p>		
Inverter Mode Specifications		
Output Voltage Waveform	Pure Sine Wave	
Output Voltage Regulation	230Vac±5%	
Output Frequency	50Hz	
Peak Efficiency	94%	
Overload Protection	5s@≥150% load; 10s@110%~150% load	
Surge Capacity	2* rated power for 5 seconds	
Nominal DC Input Voltage	12Vdc	24Vdc
Cold Start Voltage	11.5Vdc	23.0Vdc
Low DC Warning Voltage		
@ load < 50%	11.0Vdc	22.0Vdc
@ load ≥ 50%	10.5Vdc	21.0Vdc
Low DC Warning Return Voltage		
@ load < 50%	11.5Vdc	22.5Vdc
@ load ≥ 50%	11.0Vdc	22.0Vdc
Low DC Cut-off Voltage		
@ load < 50%	10.2Vdc	20.5Vdc
@ load ≥ 50%	9.6Vdc	20.0Vdc
High DC Recovery Voltage	15.5Vdc	32Vdc
High DC Cut-off Voltage	16.5Vdc	33Vdc
No Load Power Consumption	<25W	<35W
Charge Mode Specifications		
Charging Algorithm	3-Step	
AC Charging Current (Max)	60 Amp(@VP=230Vac)	
Flooded Battery	14.6	29.2
AGM /Gel Battery	14.1	28.2
Floating Charging Voltage	13.5Vdc	27Vdc
MPPT Solar Charging Mode		
INVERTER MODEL	1.6KW-12V	3KW-24V
Max. PV Array Power	1600W	3000W
Nominal Pv Voltage		240Vdc
PV Array MPPT Voltage Range		30~430Vdc
Max.PV Array Open Circuit Voltage		450Vdc
Max Charging Current (AC charger plus solar charger)		80Amp
General Specifications		
Safety Certification	CE	
Operating Temperature Range	-10'C to 50°C	
Storage temperature	-15°C~ 60°C	
Humidity	5% to 95% Relative Humidity(Non-condensing)	
Dimension(D*W*H), mm	405x303x107	
Net Weight, kg	6.18	