HVM 1.2K Plus(Hybrid Inverter)

Features

- Pure sine wave solar inverter
- High PV input voltage range
- Built-in MPPT solar controller
- Optimize battery performance,extend lifecycle
- Inverter running without battery
- RS485 communication for BMS(Optional)
- Self consumption and Feed-in to the grid(Optional), Detachable LCD(Optional)

Built-in 60A Solar Charger

Wide MPPT Range 18-125V

Pure Sine Wave

LCD Display

BMS

Support Lithium/ Lead-acid Battery

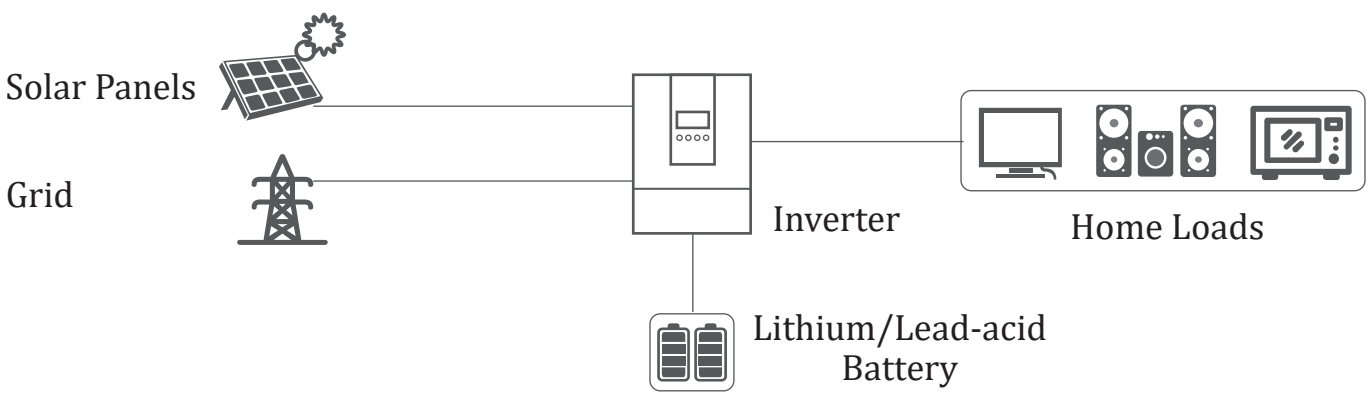
Lithium Battery Activation

Detachable Dust Cover

PF

Power Facter 1.0

System Diagram



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Specifications

Model	HVM 1.2K PLUS
AC Input	
Rated Input Voltage (VAC)	208 / 220 / 230 / 240; L+N+PE
Voltage Range (VAC)	90~280±3 (normal mode); 170~280±3 (UPS mode)
Frequency (Hz)	50 / 60 (Auto Adaptive)
AC Output	
Rated Capacity (kW)	1.2
Surge Power (kVA)	2.4
Voltage (VAC)	208 / 220 / 230 / 240
Power Factor (PF)	1
Frequency	50 / 60Hz±0.1%
Switch Time (ms)	10 (normal mode) / 10 (UPS mode)
Wave Form	Pure Sine Wave
Overload Capacity (Battery Mode)	60s@102%~110% load; 10s@110%~130% load; 3s@130%~150% load; 0.2s@>150% load
Max. Efficiency (Battery Mode)	90%@12VDC
Parallel Quantity	NA
Charger (PV /AC)	
Solar Charger Type	MPPT
Max PV input Current /Input Power	14A / 1000W
MPPT Range@Operating Voltage (VDC)	18~100
Max PV Open Circuit Voltage (VDC)	125
Max PV Charge Current (A)	60
Max AC Charge Current (A)	60
Max. Charge Current (PV + AC)(A)	120
Battery	
Rated Voltage (VDC)	12
Floating Charge Voltage (VDC)	13.8
Overcharge Protection (VDC)	15
Battery Type	Lithium and Lead-acid
Interface	
HMI	LCD
Interface	RS485 / RS232
Monitoring	NA
General Data	
Ingress Protection	IP21
Operating Temperature	-10°C~50°C
Relative Humidity	5%~95%(Non-condensing)
Storage Temperature	-15 °C~60°C
Net Weight (kg)	3.6
Dimensions (W*H*D)	347*236*91mm(without bracket)
Max.Operating Altitude	4000m (Derating above 1000m)
Activation	
AC Activation	YES
PV Activation	YES