

Single Phase Hybrid Solar Inverter

Supports:

- 2 or More Load Ports
- "Never Overload" Operation
- Solar Power Feed to All Loads
- Zero Export Functionality (Full/Partial)



PV5000-24

Key Features



Built-in 100A Solar Charger



Wide MPPT Range 40-500V



Workable with Generator



Complete CE Certificate

BMS

Support Lithium/Lead-acid Battery



Lithium Battery Activation



Detachable Dust Cover

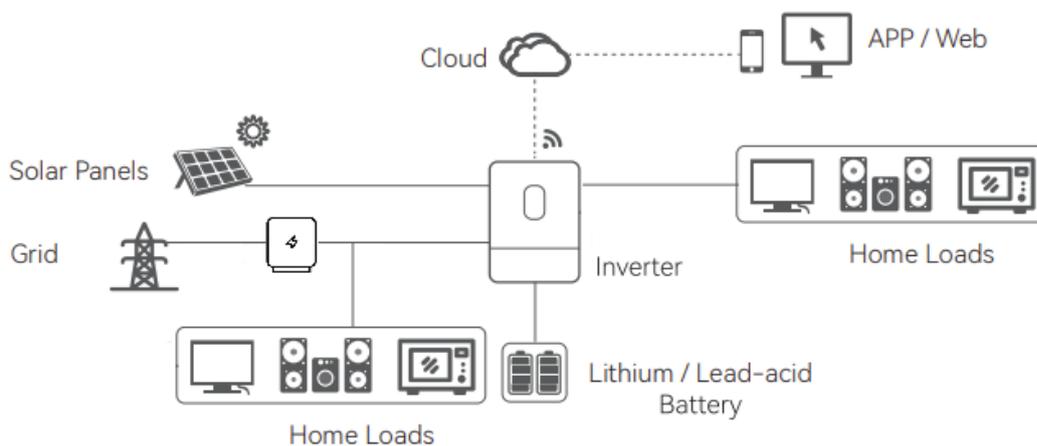


Feed-in to Grid



WiFi Monitoring(optional)

System Diagram



Specifications

Feature	PV5000-24
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 Adaptable)
AC Output	
Rated Capacity (kW)	3.6
Surge Power (kVA)	5.7
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)	92.7% ± @ 24VDC
Charger (PV / AC)	
Solar Charger Type	MPPT
Max PV Input Current / Input Power	18A / 5000W
MPPT Range @ Operating Voltage (VDC)	40–450
Max PV Open Circuit Voltage (VDC)	500
Max PV Charge Current (A)	100
Max AC Charge Current (A)	100
Max Charge Current (PV + AC) (A)	100
Battery	
Rated Voltage (VDC)	24
Floating Charge Voltage (VDC)	27
Overcharge Protection (VDC)	30.5
Battery Type	Lithium and Lead-acid
Interface	
HMI	LCD
Interfaces	RS485 / RS232 / USB / Dry Contact
Monitoring	WiFi (optional)
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)	6.4
Dimensions (W×H×D)	490×306×115mm (without bracket)
Max. Operating Altitude	4000m (Derating above 1000m)