

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)



PV9000-48 Pro

Key Features



Built-in 120A Solar Charger



Wide MPPT Range 60-520V



28A MAX PV Input

DUAL IN OUT

Dual AC In & Dual AC Out*

BMS

Support Lithium/Lead-acid Battery



Lithium Battery Activation



Noise Control Algorithm



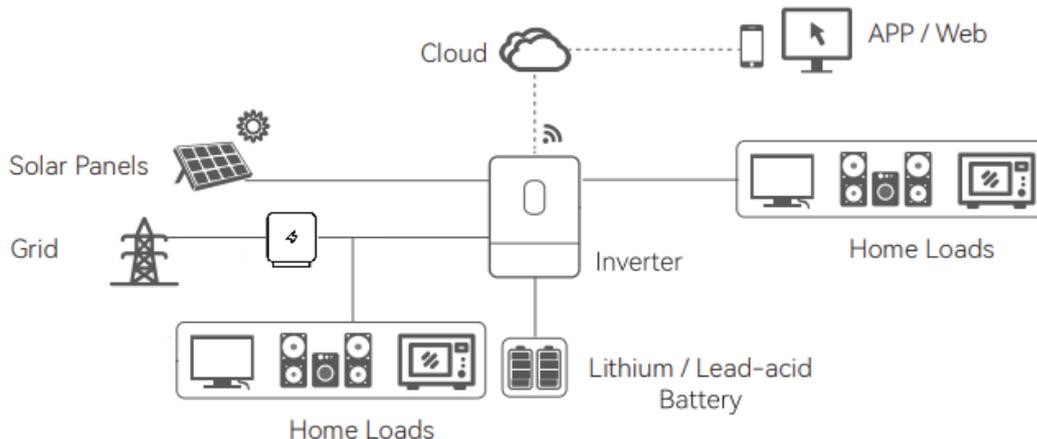
Feed-in to Grid



WiFi Monitoring(optional)

*Extra interface can be selected as in or out. It cannot support at the same time.

System Diagram



Specifications

Feature	PV9000-48 Pro
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)	6.5
Surge Power (kVA)	13
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)	10min @ 102%~120% Load 1min @ 120%~150% Load 10s @ 150%~200% Load 5s @ >200% Load
Max. Efficiency (Battery Mode)	93% ± @ 48VDC
Charger (PV / AC)	
Solar Charger Type	MPPT
Max PV Input Current / Input Power	28A / 9000W
MPPT Range @ Operating Voltage (VDC)	60–450
Max PV Open Circuit Voltage (VDC)	520
Max PV Charge Current (A)	120
Max AC Charge Current (A)	120
Max Charge Current (PV + AC) (A)	120
Battery	
Rated Voltage (VDC)	48
Floating Charge Voltage (VDC)	54
Overcharge Protection (VDC)	61
Battery Type	Lithium and Lead-acid
Interface	
HMI	LCD
Interfaces	RS485 / USB / Dry Contact/ CT/ Meter
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)	10
Dimensions (W×H×D)	508×338×136.5mm (without bracket)
Max. Operating Altitude	4000m (Derating above 1000m)