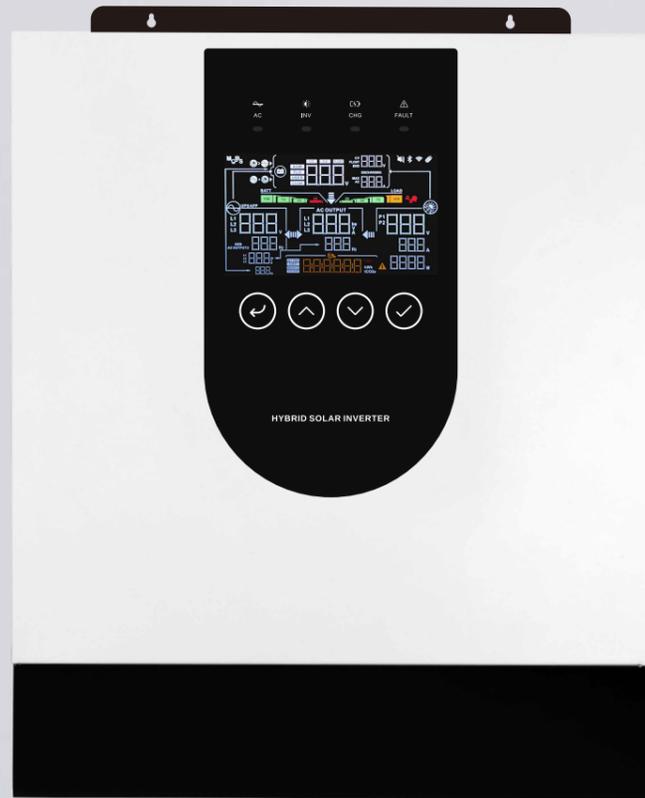


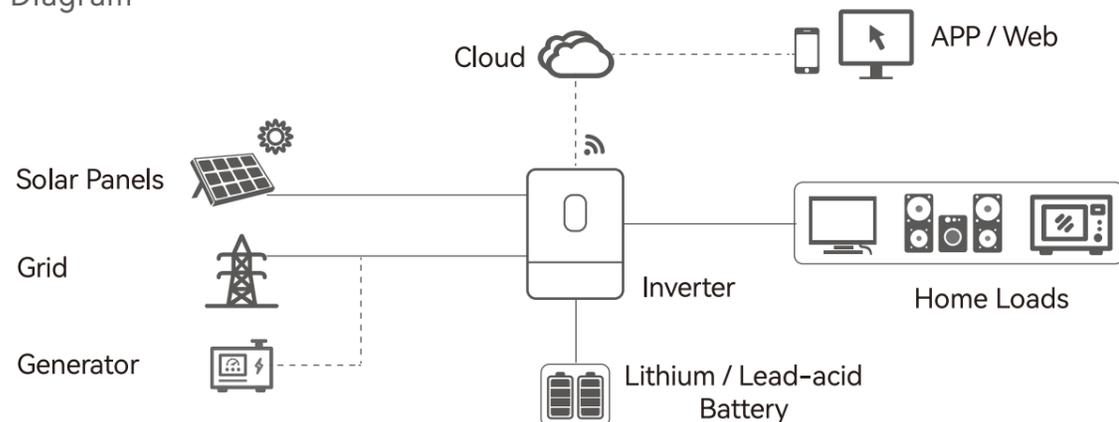
# Hybrid Solar Inverter



SYP12.0KW-48V

-  Built-in 160A Solar Charger
-  Wide PV Input Voltage Range 60-500V
-  Dual MPPTs Input
-  45A MAX PV Input
-  DUAL Dual AC Out
-  BMS Support Lithium/Lead-acid Battery
-  Lithium Battery Activation
-  5 Inch Display
-  Feed-in to Grid
-  WiFi Monitoring(optional)

System Diagram



## Specifications

Model	SYP12KW-48V
<b>AC Input</b>	
Rated Input Voltage (VAC)	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)
<b>AC Output</b>	
Rated Capacity (kW)	12
Surge Power (kVA)	24
Voltage (VAC)	220/230/240
Power Factor (PF)	1
Frequency	50/60Hz±0.1%
Switch Time (ms)	10(APP/UPS mode), 20(GEN mode)
Wave Form	Pure Sine Wave
Overload Capacity (Battery Mode)	1min@102%~125%Load 10s@ > 125%Load
Max. Efficiency (Battery Mode)	94%@48VDC
Parallel Quantity	NA
<b>Charger (PV / AC)</b>	
Solar Charger Type	Dual MPPTs
Max. PV input Current / Input Power	Using One MPPT: 27A/9KW Using Two MPPTs: 22.5A/Per MPPT, 15kW/Total
MPPT Range@Operating Voltage (VDC)	60-450
Max. PV Open Circuit Voltage (VDC)	500
Max. PV Charge Current (A)	160
Max. AC Charge Current (A)	160
Max. Charge Current (PV + AC) (A)	160
<b>Battery</b>	
Rated Voltage (VDC)	48
Floating Charge Voltage (VDC)	54
Overcharge Protection (VDC)	61
Battery	Lithium and Lead-acid
<b>Interface</b>	
HMI	LCD
Interface	RS232 / RS485 / CAN
Monitoring	WiFi (Optional)
<b>General Data</b>	
Ingress Protection	IP21
Operating Temperature	-10 °C~60°C
Relative Humidity	5% ~ 95% (Non-condensing)
Storage Temperature	-15°C~60°C
Net Weight (kg)	14
Dimensions (H*W*D)	525x435x138mm
Max. Operating Altitude	4000m(Derating above 1000m)