LUMINOUS
SOLAR



Single Phase Hybrid Inverter

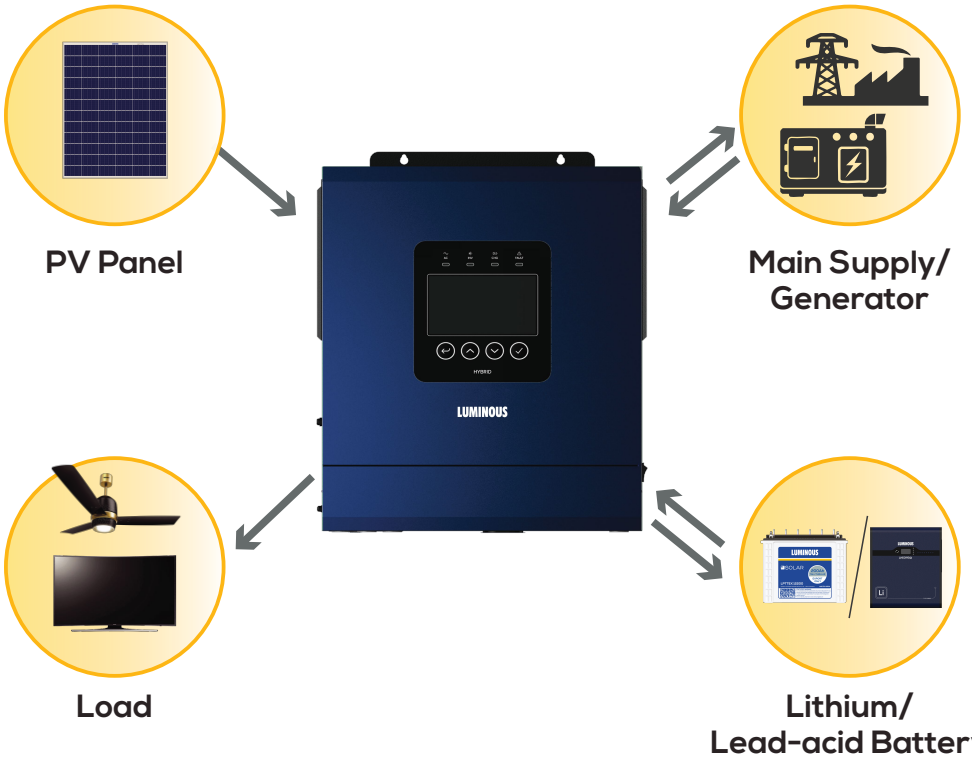
SOLAR HPV-P 6.5kva/48V

- **Seamless scalability with upto 9 inverters in parallel**
- **Supports panel connection upto 9000W PV**
- **Live Performance Monitoring**
- **Effortless load switching with dual AC output**

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System Diagram



Solar Hybrid Inverter

LUMINOUS SOLAR

Specifications

Model	HPV-P 6.5kva/48V
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	50 / 60 Hz (Auto Adaptive)
AC Output	
Rated Capacity	6.5kW
Surge Power	12 kVA
Voltage	208 / 220 / 230 / 240 VAC
Power Factor	1.0 (PF)
Frequency	50/60 Hz ± 0.1%
Switch Time	10 ms (Normal mode) / 10 ms (UPS mode)
Wave Form	Pure Sine Wave
Overload Capacity (Battery Mode)	60s@102%~110% load; 10s@ › 110% load;
Max. Efficiency (Battery Mode)	94%@ 48VDC
Parallel Operation	9
Grid Export	Yes
Dual AC output	Yes
Charger (PV / AC)	
Solar Charger Type	MPPT
Max PV input current / power	27A / 9000W
MPPT Range@Operating Voltage	60~450 VDC
Max PV Open Circuit Voltage	500 VDC
Max PV Charge Current	120 A
Max AC Charge Current	120 A
Max. Charge Current (PV + AC)	120 A
Battery	
Normal Voltage	48 VDC
Floating Charge Voltage	54 VDC
Overcharge Protection	61 VDC
Battery Type	Lithium / Lead-acid
Interface	
HMI	5 inch LCD
Interface	RS485 / CAN / RS232/Parallel Interface
Monitoring	Wi-Fi (built-in)
General Data	
Ingress Protection	IP21
Operating Temperature	-10 °C~ 60 °C
Relative Humidity	5% ~ 95% (Non-condensing)
Storage Temperature	-15 °C ~ 60 °C
Net Weight	8.4 kg
Dimensions (W*H*D)	410*336*110mm (without bracket)
Max. Operating Altitude	4000m (Derating above 1000m)

*Technical Specifications are subject to change without prior notice.

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