

PLV PLUS SERIES LOW VOLTAGE SPLIT PHASE HYBRID SOLAR INVERTER

5/6/7/8/10/12kW Single Phase/Split Phase 120VAC/240VAC

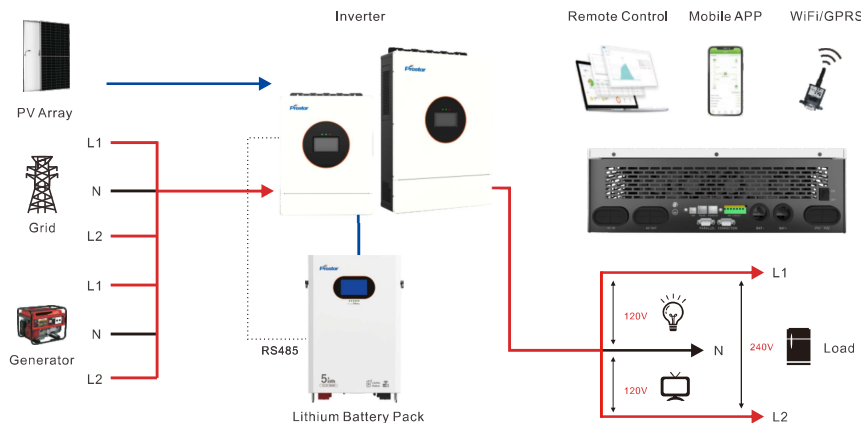


Performance Characteristics

1. 120/240VAC single/split-phase compatible
2. IP20, scenario-flexible installation
3. Up to 6-unit parallel for off-grid, multi-battery expandable
4. 220A max charge current
5. Dual mppt, 99.9% peak efficiency
6. Sleek design, plug-and-play
7. Full-stack safety protection

PLV PLUS series low voltage split phase hybrid solar inverter delivers robust power management for residential and light commercial applications throughout the Americas. Engineered for 120V/240V single/split-phase systems, it supports flexible configurations with up to 6-unit parallel operation for scalable off-grid or backup power. Featuring dual MPPT channels and 220A max charge current, it maximizes solar harvest and battery efficiency. The IP20-rated design ensures reliable performance in diverse installations, while integrated safety protocols offer grid/off-grid resilience. Ideal for energy independence in homes, farms, and small businesses.

Application Diagram



Technical Specifications

MODEL	PLV5K-48PL-PLUS	PLV6K-48PL-PLUS	PLV7K-48PL-PLUS	PLV8K-48PL-PLUS	PLV10K-48PL-PLUS	PLV12K-48PL-PLUS
Inverter Output						
Rated Output Power	5000W	6000W	7000W	8000W	10000W	12000W
Max Peak Power	10000W	12000W	14000W	16000W	20000W	24000W
Rated Output Voltage	120V,Single-Phase /240V,Split-Phase					
Motor Loading Capacity	4.8HP			5HP	6HP	
Rated Frequency	50/60Hz					
Output Waveform	Pure Sine Wave					
Switching Time	Typical value: 10ms,Max value for single machine: 20ms,Max value for parallel machines: 30ms			10ms		
Number of Parallel Units	6					
Battery						
Battery type	Lithium-ion battery/Lead-acid battery/User-defined					
Rated Battery Voltage	48V					
Voltage Range	40~60V					
Max Solar Charging Current	120A	120A	120A	180A	200A	220A
Max Mains/Generator Charging Current	100A	100A	100A	100A	120A	140A
Max Hybrid Charging Current	120A	120A	120A	180A	200A	220A
PV Input						
Number of MPPT Routes	1			2		
Max Input Power	7500W	9000W	10500W	7500W+7500W		9000W+9000W
Max Input Current	27A			22A+22A		
Max Open-Circuit Voltage	500V			500V+500V		
MPPT Operating Voltage Range	125~425V					
Utility / Generator Input						
Input Voltage Range	90V~140V			90~275V		
Input Frequency Range	60/55~65Hz			50/60Hz		
Bypass Overload Current	40A			63A		
Efficiency						
MPPT Tracking Efficiency	99.90%					
Max Efficiency of Battery Inversion	93%			92%		
General						
Cabinet Size (WxHxDmm)	472×365×130			450×620×142		
Weight (Kg)	15			27		
Protection Level	IP20					
Operating Temperature Range	-10-55°C,>45°C Derating					
Noise	≤45dB			<60dB		
Cooling Method	Intelligent Air Cooling					
Communication						
Communication Method	Wi-Fi/Bluetooth /GPRS/RS485/CAN/USB/Dry contact/4G (optional)					