

PPSPL-Hybrid Inverter



Key Features

- Wide PV Input Range Starts from 30VDC for 1.5K / 3K / 4.2K models.
- Built-in Communication Port for BMS Ensures seamless integration with battery management systems.
- Feed-in Grid Function Allows excess solar power to be fed back into the grid.
- Built-in Wi-Fi Enables remote monitoring and OTA (Over-the-Air) firmware upgrades via a dedicated app.
- Dual AC Outputs Available on 4.2K / 6.2K / 8K models for flexible load management.
- High Charging Current Up to 100A or 120A depending on the model.
- Battery-Independent Design Operates efficiently with or without battery backup.
- Battery Equalization Function Enhances battery performance and prolongs lifecycle.
- Built-in Anti-Dust Kit Provides added protection in harsh environmental conditions.

PERPETUAL POWER SERVICES PRIVATE LIMITED

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MODEL	Expert VM IIPremium+1.5K	ExpertVMIIIPremium+3K	Expert VM IIPremium+4.2K	Expert VM IIPremium+6.2K	Expert VM IIVMIIPremium+8K
Rated Power	1500VA/1500W	3000VA/3000W	4200VA/4200W	6200VA/6200W	8000VA/8000W
INPUT					
Voltage	230VAC				
Selectable Voltage Range	170-280VAC (For Personal Computers);90-280VAC(For Home Appliances)				
Frequency Range	50Hz/60Hz (Auto sensing)				
OUTPUT					
AC Voltage Regulation (Batt.Mode)	230VAC±5%				
Output Power	1500W with PV & battery 1200W with battery only	3000W with PV & battery 2500W with battery only	4200W with PV & battery 4000Wwithbatteryonly	6200W with PV & battery 5000W with battery only	8000VA/8000W
ACOutputNo.	Single	Single	Dual Outputs	Dual Outputs	Dual Outputs
Surge Power	3000VA	6000VA	8400VA	12400VA	16000VA
Efficiency (Peak)	93%				
Transfer Time	10ms (For Personal Computers);20ms (For Home Appliances)				
Wave form	Puresine wave				
BATTERY					
Battery Voltage	12 VDC	24 VDC	48 VDC	48 VDC	
Floating Charge Voltage	13.5VDC	27 VDC	54 VDC	54 VDC	
Over charge Protection	16 VDC	32 VDC	63 VDC	66 VDC	
SOLAR CHARGER & AC CHARGER					
Solar Charger Type	MPPT				
Maximum PV Array Open Circuit Voltage	350VDC	450VDC	500VDC	500VDC	500VDC
Maximum PV Array Power	2000W	3000W	5000W	6500W	10000W(5000Wx2)
Maximum PV Input Current	13A	13A	18A	18A	22Ax2
MPP Range @ Operating Voltage	30~300 VDC (Min.60VDC without battery connected)	30~400 VDC (Min.60V DC without battery connected)	30~450 VDC (Min. 60V DC without battery connected)	90~450VDC (Min.100V DC without battery connected)	90~450VDC
Maximum Solar Charge Current	100A	100A	120A	100A	120A
Maximum AC Charge Current	80A	80A	100A	100A	120A
Maximum Charge Current	100A	100A	120A	100A	120A
PHYSICAL					
Dimension, D x W x H (mm)	90x288x357		115x300x435		141x322x 497
Net Weight (kgs)	6.6	7.1	9	10.4	15
Communication Interface	RS232/RS485(BMS)/WiFi				
ENVIRONMENT					
Humidity	5% to 95% Relative Humidity (Non-condensing)				
Operating Temperature	-10°Cto50°C				
Storage Temperature	-15°Cto60°C				

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