

FSP Solar PowerManager Off-Grid

Via new design concept, FSP integrated high photovoltaic voltage input, Lithium iron battery communication, and Bluetooth mobile monitoring to enhance user experiences. The model fulfills not just unity output power factor, but also satisfies independent application.

It supplies stable and reliable pure sine wave 230Vac power, charges batteries with an integrated MPPT 4kW charger controller. User can define how to use their energy generation through front LCD panel to optimize power consumption. More Simple, More Capable

GENERAL FEATURES

Power factor 1 high frequency inverter

Tri-Power solar, utility and battery management

Output power source priorization & timer configuration

Detachable LCD controller

Built-in Bluetooth for mobile monitoring(Android)

Compatible with Lithium iron battery

USB On-the-GO function

Support generator

Cold start function



TECHNICAL SPECIFICATIONS

MODEL	PMIV-5MK48V	
RATED POWER	5000VA/5000W	
INPUT		
Voltage	230 VAC	
Selectable Voltage Range	170-280 VAC (For Personal Computers)	
Scientable Voltage Hallige	90-280 VAC (For Home Appliances)	
Frequency Range	50 Hz/60 Hz (Auto sensing)	
OUTPUT		
AC Voltage Regulation (Batt. Mode)	230VAC ± 5%	
Surge Power	10000VA for 4 seconds	
Efficiency (Peak)	90%	
Transfer Time	15 ms (For Personal Appliances)	
Waveform	Pure sine wave	
BATTERY & AC CHARGER		
Battery Voltage	48 VDC	
Floating Charge Voltage	54 VDC	
Overcharge Protection	66 VDC	
SOLAR CHARGER & AC CHARGER		
Maximum PV Array Power	5000 W	
MPPT Range @ Operating Voltage	120VDC~ 430 VDC	
Maximum PV Array Open Circuit Voltage	450 V	
Maximum Solar Charge Current	100A	
Maximum AC Charge Current	100A	
Maximum Charge Current	100A	
Maximum Efficiency	98%	
Solar Charger type	MPPT	
PHYSICAL		
Dimension, D x W x H (mm)	140 x 295 x 468 A	
Net Weight (kgs)	12	
Ingress Protection Rating	IP20	
Cooling System	AirForce cooling	
Communication Interface	USB/RS232/RS485/Bluetooth/Dry-contact	
OPERATING ENVIRONMENT		
Humidity	5% to 95% Relative Humidity(Non-condensing)	
Operating Temperature	10°C-55°C	
Storage Temperature	-15°C- 60°C	





Output source is Solar-Bat-Utility Charging source priority is Solar & Utility

System will adapt Solar and utility both source to charge battery at the same time. Once solar power is low, system will switch to battery mode automatically until reach low bat warning then transfer to utility.

Power source priority is Solar-> Battery-> Utility Charge source priority is Solar & Utility



Output source & Charger source priority is solar first

When Solar energy is sufficient to charge the battery and feed the loads, utility will stand by until Solar power ceases or battery voltage drops to user's setting.

Power source priority is Solar-> Battery or Utility

Charging source priority is Solar-> Utility