



- Scalable: Parallel operation up to 6 units only available for 4k & 5KVA
- Selectable input voltage range for PC or home appliances
- Smart battery charging algorithm to optimize battery life
- Configurable AC/Solar input priority via LCD panel
- Compatible to mains or generators
- Auto restart while AC back and cold start function available
- Overload and short circuit protection

## Expert Off Grid Inverter Specification

Model Number	FSP202PV-230FW-24	FSP302PV-230FW-24	FSP402PV-230FW-48	FSP502PV-230FW-48
Grid system	Single Phase, 230Vac			
Rated power	2,000VA/ 1,600W	3,000VA/2400W	4,000VA/ 3,200W	5,000VA/ 4,000W
Max. PV input power	900W		900W	4,000W
Max. PV voltage (OC)	60Vdc	60Vdc	105Vdc	105Vdc
Number of MPPT	0	0	0	0
<b>Input Characteristic</b>				
AC voltage	Single Phase, 230Vac			
Selectable Voltage Range	170-280 Vac (For PC/ SPS applications)		90-280 Vac (For Home facilities)	
Frequency range	50 Hz/ 60 Hz (Auto)			
<b>Output Characteristic</b>				
AC voltage regulation @ backup mode	230Vac $\pm$ 5%			
Surge ability	4,000VA	6,000VA	8,000VA	10,000VA
Transfer time	10 ms (For PC/ SPS) ; 20 ms (For home facilities)			
Output waveform	Pure sinewave			
Peak Efficiency (PV to AC)	95%	95%	95%	95%
Efficiency (Battery to AC)	90%	90%	90%	90%
<b>Charging Characteristic</b>				
Max. charging power	1,200W	1,200W	5,280W	5,280W
Max. charging current	50A	50A	110A	110A
Max. PV charging current	50A	50A	50A	50A
Max. AC charging current	30A	30A	60A	60A
Nominal Battery voltage	24Vdc	24Vdc	48Vdc	48Vdc
Over charge protection	31Vdc	31Vdc	60Vdc	60Vdc
Battery floating voltage	27Vdc	27Vdc	54Vdc	54Vdc
Rated backup time w/ 100Ah (min)	50	28	50	40
Night time power consumption	<2W			
<b>Physical &amp; Environment Data</b>				
Operating ambient temp range	0°C - 55°C			
Humidity	5 - 95% RH, non-condensing			
Altitude	0 - 1000m			
Dimensions (W x H x D)	272 mm x 355 mm x 100 mm		295 mm x 468 mm x 120 mm	
Net weight	6.5kg	7kg	9.8kg	9.8kg
Protect function	Overload, short circuit, over voltage, high temperature			
Cooling	Air forced			
Enclosure environmental rating	IP20			
<b>Interface</b>				
HMI	LCD display			
Communication port	USB		RS232	
Dry contact port	Yes			
Optional accessories	Remote control panel, Parallel kits (Only for 4k & 5k model)			
<b>Features</b>				
Monitoring software	Yes			
Compliance	IEC 55022 Class A		IEC 60950,	
Certification	CE			