



- Scalable: Parallel operation up to 9 units only available for 4k & 5kVA
- Output power factor = 1
- 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
- Mains or generators compatible
- Auto restart while AC back and cold start function available
- Various operations, available for balanced 3 phase or unbalanced 3 phase

## Expert Off Grid Inverter

MODEL NUMBER	FSP102PV-230FW-12	FSP202PV-230FW-24	FSP302PV-230FW-24	FSP402PV-230FW-48	FSP502PV-230FW-48
Grid system	Single Phase, 230Vac				
Rated power	1,000VA/ 1,000W	2,000VA/ 2,000W	3,000VA/3,000W	4,000VA/ 4,000W	5,000VA/ 5,000W
Parallel ability	No	No	No	Yes, 9 units	Yes, 9 units
Max. PV input power	600W	1,200W	1,200W	2,400W	2,400W
Max. PV voltage (OC)	50Vdc	60Vdc	60Vdc	90Vdc	90Vdc
Number of MPPT	0	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 ± 5%				
Surge ability	2,000VA	4,000VA	6,000VA	8,000VA	10,000VA
Transfer time	10 ms (For PC/ SPS) ; 20 ms (For home facilities)				
Output waveform	Pure sinewave				
Efficiency (Line mode)	95%	95%	95%	95%	95%
Efficiency (Battery to AC)	90%	93%	93%	93%	93%
<b>CHARGING CHARACTERISTIC</b>					
Max. charging power	600W	1200W	1,200W	5,280W	5,280W
Max. charging current	50A	50A	50A	110A	110A
Max. PV charging current	50A	50A	50A	50A	50A
Max. AC charging current	20A	30A	30A	60A	60A
Nominal Battery voltage	12Vdc	24Vdc	24Vdc	48Vdc	48Vdc
Over charge protection	15.5Vdc	31Vdc	31Vdc	60Vdc	66Vdc
Battery floating voltage	13.5Vdc	27Vdc	27Vdc	54Vdc	64Vdc
Rated backup time w/ 12V/24V/48V/ 100Ah (min)	50	50	28	50	40
Standby power consumption	<1W		<2W		
<b>PHYSICAL &amp; ENVIRONMENT DATA</b>					
Operating temp range	0°C - 55°C				
Storage temp range	-15°C - 60°C				
Humidity	5 - 95% RH, non-condensing				
Altitude	0 - 1000m				
Dimensions (W x H x D)	240 x 316 x 95 mm	272 x 355 x 100 mm	272 x 355 x 100 mm	295 x 455 x 155 mm	295 x 455 x 155 mm
Net weight	5.0 kg	6.5 kg	7.0 kg	9.8 kg	9.8 kg
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	USB	USB	USB/ RS232	USB/ RS232
Dry contact port	Yes	Yes	Yes	Yes	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				