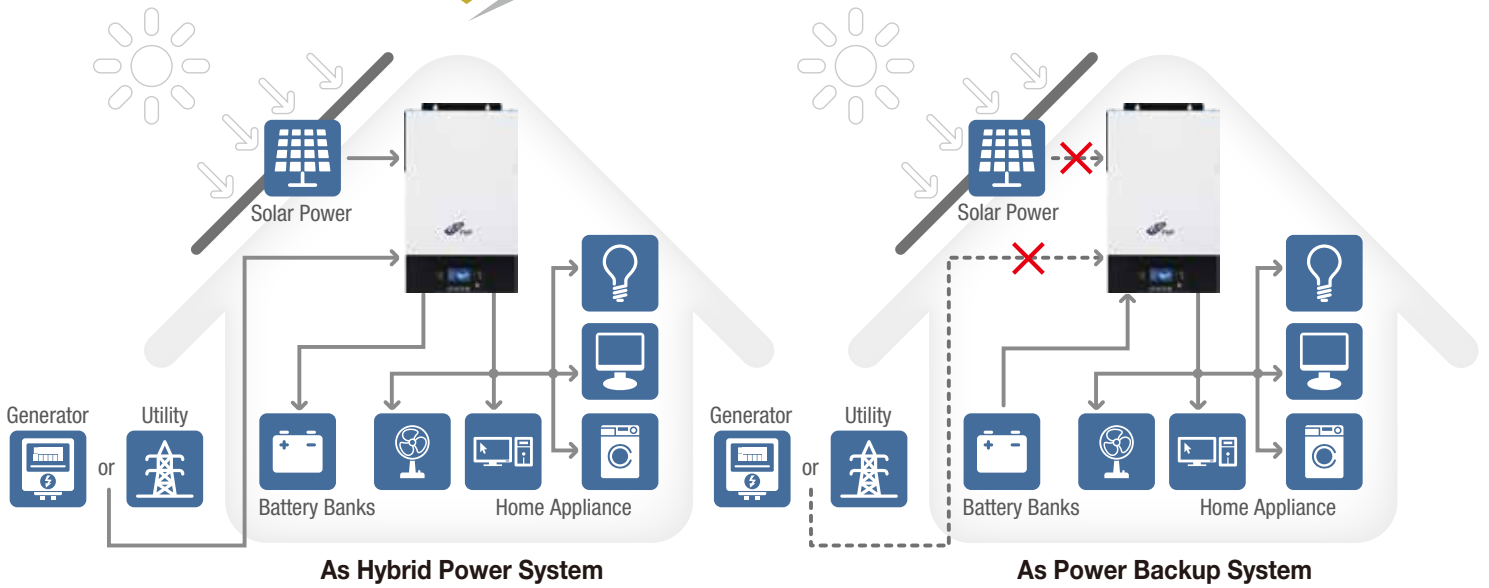




# Ideal Off-Grid Inverter OffGrid Zero Series

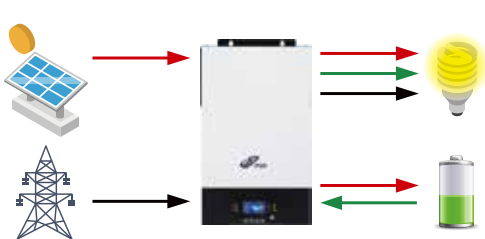
Programmable Power Source Priority function.  
More Flexible, More Independent for energy usage and storage.

## The Principle of FSP Off-Grid Inverters



## FSP Off-Grid Inverters/ Smart Power Priority

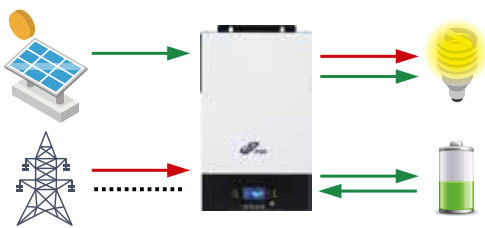
FSP Off-Grid inverters designed for power and charging source priority, can be set up by LCD panel according to the power consumption demand, storing and/or consuming energy are also user-defined.



O/P Source Priority 1 → 2 → 3 →

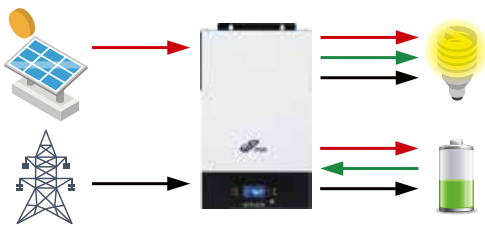
**Output source Priority is Solar-> Bat-> Utility**  
**Charging source priority is Solar Power Only**

Solar energy is sufficient to charge the battery and carry the loads. Once solar power is low, system will switch to battery mode automatically until battery reaches low warning then system transfers to utility.



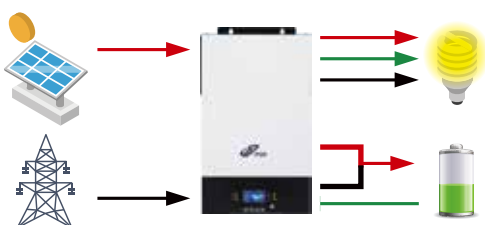
**Output source is Utility first**  
**Charging source priority is solar first**

Utility will feed output loads, Solar power will charge the battery until solar power ceases. Solar and battery energy will be used when utility fails.  
Power source priority is Utility -> Solar & Battery  
Charging 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



**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

# OffGrid Zero Inverter



- Zero (0ms) transfer time to protect mission-critical loads such as servers and ATMs
- Removable LCD control module with multiple communications
- iOS & Android Mobile monitoring APP with optional WiFi module
- Supports USB On-the-Go function
- Configurable AC/PV output usage timer and prioritization
- Pure sine wave solar inverter
- Selectable high power charging current
- Wide DC input range
- Compatible to mains voltage or generator power
- Auto restart while AC is recovering
- Overload and short circuit protection
- Smart battery charger design for optimized battery performance
- Cold start function
- Optional parallel operation up to 9 units
- Pylontech Lithium battery compatible for 5K model



MODEL NUMBER	OffGrid Zero 3K	OffGrid Zero 5K
Rated power	3000VA/3000W	5000VA/5000W
Parallel Capability	Up to 9 units	
<b>INPUT</b>		
Voltage	230 VAC	
Voltage Range	110-280 VAC	
Frequency Range	50 Hz/60 Hz (Auto sensing)	
<b>OUTPUT</b>		
AC Voltage Regulation	230 VAC $\pm$ 5%	
Output THDv	$\leq$ 3% for Linear load, $\leq$ 8 % for non-linear load	
Surger Power	6000VA for 5 sec	10000VA for 5 sec
Efficiency (Peak)	93 % at Line Mode, 90% at Battery Mode	
Transfer Time	0 ms	
Waveform	Pure sine wave	
<b>BATTERY</b>		
Battery Voltage	24 VDC	48 VDC
Floating Charge Voltage	27 VDC	54 VDC
Overcharge Protection	34 VDC	66 VDC
<b>SOLAR CHARGER &amp; AC CHARGER</b>		
Solar Charger type	MPPT	
Maximum PV Array Open Circuit Voltage	145 VDC	
Maximum PV Array Power	1500 W	4000 W
MPPT Range @ Operating Voltage	30 ~ 115 VDC	60 ~ 115 VDC
Maximum Solar Charge Current	60A	80A
Maximum AC Charge Current	60A	
Maximum Charge Current	120A	140A
<b>PHYSICAL</b>		
Dimension, D X W X H (mm)	140 x 303 x 525	
Net Weight (kgs) 13.0 13.5	13.0	13.5
Communication Interface	USB/RS232/RS485/Bluetooth/Dry-contact	
<b>OPERATING ENVIRONMENT</b>		
Humidity	5% to 95% Relative Humidity(Non-condensing)	
Operating Temperature	0°C to 55°C	
Storage Temperature	-15°C to 60°C	

\* Product specifications are subject to change without further notice.