

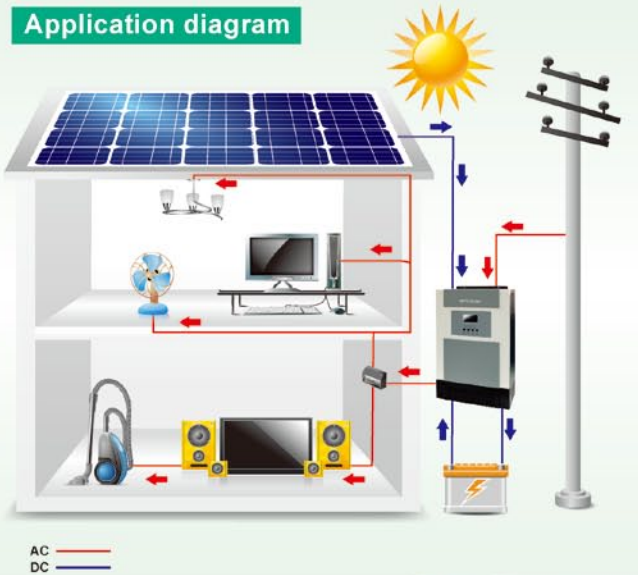
SP1000 Efecto ~ SP5000 Efecto

SP Efecto Series

SP Efecto series represent Hybrid/off-grid solar inverters that adapt high-frequency switching technology and offer high efficiency power saving results to customers who seek for environment friendly solutions that shall help reduce on the electricity bill. SP Efecto inverters feature AC charger and PV solar charger controllers to allow for batteries up to 500AH to be used. The less than 10ms transfer time from utility to autonomous power supply is perfect for computer systems and is unique for high efficiency solar power supply systems. SP Efecto inverters introduce the parallel inter-connectivity to increase your overall solar installation power rating by simply adding inverters.



Application diagram



Features:

- Pure sine wave inverter
- Parallel connection capability (Optional for SP4000 Efecto and SP5000 Efecto)
- Selectable input voltage range for home appliances and personal computers
- Selectable charging current suitable for high AH-rating batteries
- Configurable AC/Solar input priority
- Diesel generator compatible
- Auto restart as AC recovers
- Overload and short circuit protection
- Smart battery charger
- Cold start function

Specifications

MODEL	SP1000 Efecto	SP2000 Efecto	SP3000 Efecto	SP4000 Efecto	SP5000 Efecto
Rated Power	1000VA / 800W	2000VA/1600W	3000VA / 2400W	4000VA / 3200W	5000VA / 4000W
INPUT					
Voltage	230 VAC				
Selectable Voltage Range	170-280 VAC (For Personal Computers) 90-280 VAC (For Home Appliances)				
Frequency Range	50 Hz/60 Hz (Auto sensing)				
OUTPUT					
AC Voltage Regulation (Batt. Mode)	230VAC ± 15%				
Surge Power	2000VA	4000VA	6000VA	8000VA	10000VA
Peak Efficiency	93%				
Transfer Time	10 ms (For Personal Computers) 20 ms (For Home Appliances)				
Waveform	Pure sine wave				
BATTERY					
Battery Voltage	12 VDC	24 VDC		48 VDC	
Floating Charge Voltage	13.5 VDC	27 VDC		54 VDC	
Low Battery Alarm Voltage	10.5 VDC	21 VDC		42 VDC	
Shutdown Voltage	10 VDC	20 VDC		40 VDC	
Overcharge Protection	15 VDC	30 VDC		60 VDC	
Maximum Utility Charging Current	20 A	30 A		60 A	
SOLAR CHARGER					
Charging Current	50A				
Suggested operating Voltage Range	15~30VDC	30~60 VDC		60~90 VDC	
Maximum PV Array Open Circuit Voltage	40 VDC	78 VDC		100 VDC	
Standby Power Consumption	1W		2W		
JOINT UTILITY AND SOLAR CHARGING					
Maximum Charging Current	50A			110A	
PHYSICAL					
Dimension (D×W×H)	95 x 250 x 330mm	100 x 272 x 367mm		110 x 300 x 455mm	
Net Weight	4kgs	4.5kgs	6.8kgs	7.5kgs	8.5kgs
OPERATING ENVIRONMENT					
Humidity	5% to 95% Relative Humidity (Non-condensing)				
Operating Temperature	0°C - 55°C				
Storage Temperature	-15°C - 60°C				

Specifications are subject to change without notice.

* Either SP4000 Efecto or SP5000 Efecto can be installed in parallel, and total capacity can reach 24KVA or 30KVA (Transfer time is 30ms in parallel operation)

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