OPTI-Solar
INVERTER POWER

SP5000 ~ 8000-SW

SP-SW Series

Strong DC/AC transformer design with higher efficiency, enjoy the stability and reliability all the time.

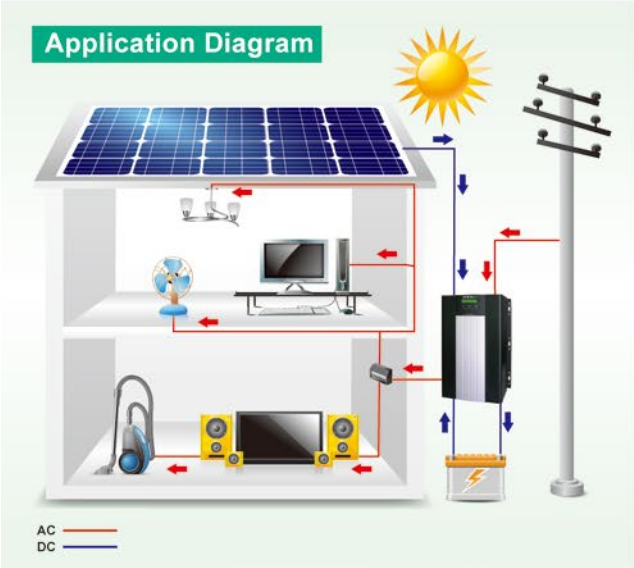
DC Start

DC/AC Transformer Design

Detachable LCD Display

Features

- Compatible with both linear and non-linear load
- Controllable & Removable panel with LCD
- DC start and automatic self-diagnostic function
- Designed to operate under harsh environment
- Heat dissipation design
- 3U 19” Rack-Mounted Design or Wall-Mounted Design
- Pre-settable Parameters
- 24hrs operation under inverter mode
- THD less than 3%
- DC/AC transformer design



Specifications

MODEL		SP5000-SW	SP6000-SW	SP8000-SW
Capacity		5KVA/4000W	6KVA/6000W	8KVA/8000W
AC INPUT (FROM ARRAY)				
Nominal Voltage		120 Vac or 230 Vac		230 Vac
Voltage Range	Acceptable Voltage Range	60~135 Vac or 120~270 Vac		120~270 Vac
	Low Voltage Transfer	60 Vac ±2% ; 120 Vac ±3%		120 Vac ±2%
	Low Voltage Return	65 Vac ±2% ; 130 Vac ±3%		130 Vac ±2%
	High Voltage Transfer	135 Vac ±% ; 270 Vac ±3%		270 Vac ±2%
	High Voltage Return	130 Vac ±2% ; 260 Vac ±3%		260 Vac ±2%
Frequency		50Hz or 60Hz		
DC INPUT (FROM ARRAY)				
Nominal Voltage		24V	48V	
Charger Voltage		27.6V	55.2V	
Solar Maxmum Peak Voltage		50V	100V	
Start-up Voltage		24V	44V	
Polarity Protect		Yes		
Backflow Protect		Yes		
Maximum Charge Current		40A		
OUTPUT				
Voltage		110/115/120Vac		220/230/240Vac
		220/230/240Vac		
Voltage Regulation(Battery Mode)		<3% RMS for entire battery voltage range		
Frequency Regulation	Line Mode	Synchronized to AC Main		
	Battery Mode	50Hz or 60Hz ±0.1Hz		
Power Factor		0.8	1	
Wave Form		Pure Sine Wave		
Overload Protection	Line Mode	>110%, then buzzer alarms and amber LED blinks continuously		
	Battery Mode	110%~150% for 30 sec ; >150% for 200ms		
Short Circuit Protection	Line Mode	Circuit Breaker		
	Battery Mode	Electronic Circuit		
TRANSFER TIME				
Typical		< 8 ms.		
Battery Voltage		24Vdc	48Vdc	
Backup Time		Depends on system load and battery capacity (Base on the batteries connected)		
Selectable Charging Current		Yes		
DISPLAY				
LCD		UPS status, I/P&O/P Voltage Frequency, Load Level, Battery Voltage & Level, Temperature, Model		
LED		Normal (Green), Warning (Amber), Fault (Red)		
AUDIBLE ALARM				
Battery Mode		Beeping every 4 seconds		
Low Battery		Beeping every second		
UPS Fault		Beeping continuously		
Overload		Beeping twice per second		
ENVIRONMENT				
Operation Temperature		0-40°C ; 32-104°F		
Relative Humidity		0-95% non-condensing		
Audible Noise		Less than 55dBA (at 1M)		
PHYSICAL				
Weight (Net / Gross Weight)		49.2kgs / 63kgs	51.4kgs / 66.6kgs	53.6kgs / 67.7kgs
Dimensions (W×H×D)		415×600×260mm	415×600×260mm	415×600×260mm
ACCESSORY				
RS232 or SNMP		Optional		

Specifications are subject to change without notice.

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