

OPTI-Solar *SP Series*

HYBRID/ OFF-GRID Inverter - SP1200 - 11000



◀ SP1200-SW/SP2400-SW/SP3600-SW/SP5000-SW/
SP6000-SW/SP8000-SW/SP11000-SW

▼ SP1200-SR/SP2400-SR/SP3600-SR



The **OPTI-Solar Hybrid/ Off-Grid Inverter**, a powerful all-in-one solution, delivers unsurpassed clean true sine wave output power combined with a selectable multistage battery charging current. The Hybrid/Off-Grid Inverter is suitable for any kind of applications such as air conditioner or any other home appliances, and its intelligent charger automatically charges any types of batteries without the risk of overcharge, while its compact & modular design makes installation easier and more cost efficient. This high quality product offers the best price/performance ratio in the industry.

Features

- Multiple Microprocessor design
- Compatible with both linear and non-linear load
- Stronger charger to support batteries of 600AH
- Controllable & Removable panel with LCD
- DC start and automatic self-diagnostic function
- Designed to operate under harsh environment
- Low heat dissipation in long time operation
- 3u 19" Rack-Mounted Design or Wall-Mounted Design
- Pre-settable Parameters
- 24 hours operation on the inverter
- THD less than 3%
- High efficiency design to save electricity



Components: 1.Hybrid Inverter 2.Battery 3.Grid connection

● Alternating current
● Direct current

Contact us for further
information and technical service.

Hybrid/ Off-grid Inverter

MODEL		SP1200-SW(SR)	SP2400-SW(SR)	SP3600-SW(SR)	SP5000-SW	SP6000-SW*	SP8000-SW	SP11000-SW		
CAPACITY		1.2KVA/800W	2.4KVA/1600W	3.6KVA/2400W	5KVA/4000W	6KVA/6000W	8KVA/8000W	11KVA/11000W		
AC INPUT (FROM GRID)	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 $\pm 2\%$; 120 Vac $\pm 3\%$					120 Vac $\pm 2\%$		
		Low Voltage Return	65 Vac $\pm 2\%$; 130 Vac $\pm 3\%$					130 Vac $\pm 2\%$		
		High Voltage Transfer	135 Vac $\pm 2\%$; 270 Vac $\pm 3\%$					270 Vac $\pm 2\%$		
		High Voltage Return	130 Vac $\pm 2\%$; 260 Vac $\pm 3\%$					260 Vac $\pm 2\%$		
	Frequency	50Hz or 60Hz								
DC INPUT (FROM ARRAY)	Nominal Voltage	24V**				48V				
	Charger Voltage	27.6V				55.2V				
	Solar Maximum Peak Voltage	50V				100V				
	Start-up Voltage	24V				44V				
	Polarity Protect					Yes				
	Backflow Protect					Yes				
	Maximum Charge Current					40A				
OUTPUT	Voltage	120 Vac (110V or 115Vac re-settable via LCD panel) 230 Vac (220V or 240Vac re-settable via LCD panel)					230 Vac (220 Vac or 240 Vac re-settable via LCD panel)			
	Voltage Regulation(Battery Mode)	<3% RMS for entire battery voltage range								
	Frequency Regulation	Line Mode	Synchronized to AC Main							
		Battery Mode	50Hz or 60Hz ± 0.1 Hz							
	Power Factor	0.67			0.8		1.0			
	Wave Form	Pure Sine Wave								
	Efficiency	>90%								
	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	Battery Voltage	24Vdc				48Vdc				
	Backup Time	Depends on system load and battery capacity (Base on the batteries connected)								
	Recharging Current	>30A	>50A			>60A		>85A		
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 degree C ; 32-104 degree F								
	Relative Humidity	0-95% non-condensing								
	Audible Noise	Less than 55dBA (at 1M)								
PHYSICAL	-SW: Wall-Mounted (Net/ Gross Weight) (Kgs)	14 / 16	21 / 24.2	23 / 26	49.2 / 63	51.4 / 66.6	53.6 / 67.7	94.6 / 110.4		
	-SR: Rack-Mounted (Net/ Gross Weight) (Kgs)	15 / 17	19.4 / 21.4	25 / 27	/	/	/	/		
	-SW: Wall-Mounted (W*H*D) (mm)	298 x 400 x 150	298 x 450 x 190	298 x 450 x 190	415 x 600 x 260	415 x 600 x 260	415 x 600 x 260	452 x 670 x 277		
	-SR: Rack-Mounted (W*H*D) (mm)	440 x 322 x 132	440 x 392 x 132	440 x 392 x 132	/	/	/	/		
ACCESSORY	RS232 or SNMP	Optional								

Specifications are subjected to change without prior notice.

* SP6000-SW could be upgraded to an off-grid inverter with an advanced CPU(optional A CPU).

** SP1200-SW(SR) 12V DC input is optional.

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