

# *Programmable LCD Pure Sine Wave Inverter with AC charger / Solar charge controller (Option), Stackable Function*

## **SI-3000 (12V / 24V / 48V)**

### **Character:**

#### **General**

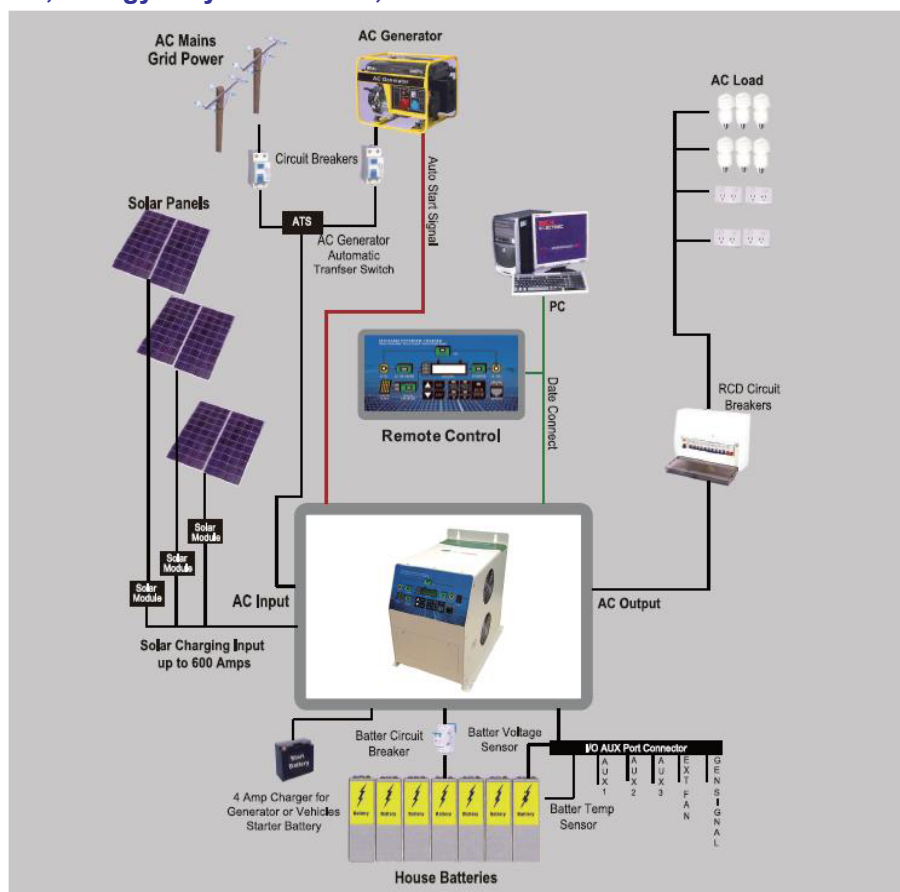
- ◆ More inverters stackable
- ◆ 3 Phase connectable
- ◆ Uninterrupted AC power (UPS function)
- ◆ Power Control - Dealing with limited generator or shore side power
- ◆ Power Assist - Boosting the capacity of shore or generator power
- ◆ LCD display for parameter setting and error messages
- ◆ Programming auxiliary relay (x 3)

#### **Battery Charger**

- ◆ Adaptive 4-stage charge characteristic: Bulk-Absorption-Float-Equalize
- ◆ The right amount of charge: Variable Absorption Time
- ◆ Preventing damage due to excessive gassing: The Battery Safe Mode
- ◆ Less maintenance and aging when the battery is not in use: The Equalize Mode
- ◆ 2 outputs to charge 2 battery banks
- ◆ To increase battery life: Temperature Compensation
- ◆ Battery Voltage Sense
- ◆ Extensional Solar Charger Capacity expansion by max. 10 sets of solar chargers (Our AP Series)

### **Description:**

- ◆ Stackable Inverter ~
- ◆ Pure Sine Wave Inverter with AC Charger and Solar Charger (Option) + one more design [stackable function
- ◆ You may parallel SI Series, according to your requirement.
- ◆ One unit is about 1.5K, if you want to increase to 4.5K, you just need to parallel 3pcs SI Series.
- ◆ Connect directly with Solar system.
- ◆ Natural Power System, Energy recycle for solar, Future trend.





SI-3000



Front Panel



Back Panel



DC Cable



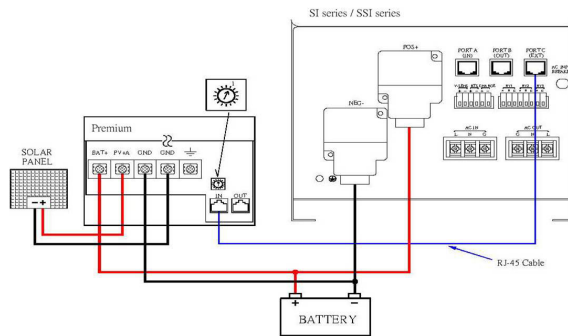
Remote control

*Specifications:*

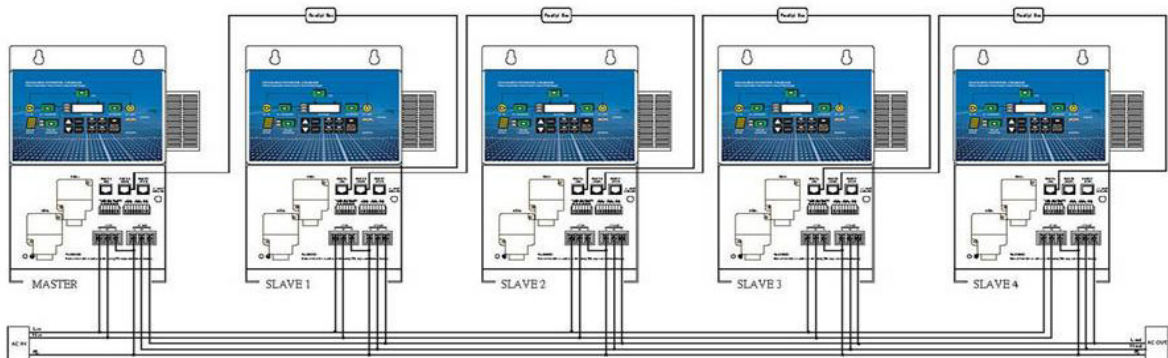
MODEL No.	SI-3000-12 (12Volt)	SI-3000-24 (24Volt)	SI-3000-48 (48Volt)
<b>INVERTER</b>			
Input Voltage Range (VDC)	9.5~16VDC	19~32VDC	38~64VDC
Output Voltage (VAC)	90~120VAC / 185~240VAC		
Output Frequency	50Hz / 60Hz ± 0.1%		
Output Voltage	Pure sinewave		
THD	< 5%		
Power Factor	All loads		
Switch-on Behavior	Nominal output voltage within 20 msec.		
Cont. Output Power at 25°C(W) (cos£c=1.0)	3000W		
Cont. Output Power at 40°C(W) (cos£c=1.0)	2400W		
Maximum Power (W)	6000W		
Maximum Efficiency (%)	84	86	89
Zero-load Power (W)	18W		
<b>CHARGER</b>			
Input Voltage Range (VAC)	100~125VAC / 200~250VAC		
Input Frequency	45~55Hz / 55~65Hz		
Power Factor	1		
Charge Characteristic	4-stage adaptive		
Maximum DC Voltage Ripple (Vrms)	< 1.25 V		
Charge Voltage "Absorption" (VDC)	14.4V	28.8V	57.6V
Charge Voltage "Float" (VDC)	13.8V	27.6V	55.2V
Output Charge Voltage (VDC) Min.,Max.	8V,16V	11V,32V	22V,64V
Charge Current House Battery (A)	120A	70A	40A
Charge Current Starter Battery (A)	4A		
<b>AC INPUT SWITCH</b>			
Protected by Thermal Circuit Breaker	60A (110V) / 30A (220V)		
Switch-over Time Inverter to AC Input	0 msec.		
Switch-over Time AC Input to Inverter	0 msec.		
Detection Time AC Input Fault	4 msec. to 10 msec.		
Trip Level Mains to Inverter	90VAC / 180VAC		
Trip Level Inverter to Mains	94VAC / 187VAC		
Min.- Max. Frequency Range (50Hz/60Hz)	45~55Hz or 55~65Hz		
<b>GENERAL</b>			
Power Control	Yes		
Power Assist	20A		

Auto Transfer Switch (A)	30A
Multi-purpose Relay	3 relays
Protection	Output short circuit, Overload, Battery overvoltage, Battery undervoltage, Battery reverse polarity detection, Over temperature, High input voltage ripple
Common Characteristics	Operating temperature range: -20°C to +50°C (fan assisted cooling) Humidity: max 95% (non-condensing)
Weight (kg)	28kgs
Dimensions (L x W x H) mm	550 x 285 x 185 mm
<b>OPTIONS</b>	
Solar Charger	AP Series SCC-45AP-1248 / SCC-60AP-1248 (Max. 10 sets for parallel connection)
Remote Controller	Remote monitoring available, optional cables: 3M/15M
Battery Temperature Sensor (BTS)	Compensation for the battery charging voltage and current

★ Stackable (Maximum 10 units)



★ Stackable (1Phase: Maximum 5 units)



★ Stackable (3Phase: Maximum 15 units)

