

# SSL-1500 (12V/24V/48V) / SSL-3000 (12V/24V/48V)

*Programmer LCD Pure Sine Wave Inverter  
with AC Charger and fixed 40A Solar Charge Controller*

## Feature:

### General--

- \* 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



SSL-1500



SSL-3000

## Description:

- \* Super Solar Inverter ~
- \* PURE SINE WAVE Inverter with ATS, Battery Charger and Solar Charge Controller
- \* Connect with Solar system directly.
- \* Smart, powerful and successfully

## Specifications:

Model No.	SSL-1500-12 SSL-1500-24 SSL-1500-48	SSL-3000-12 SSL-3000-24 SSL-3000-48
<b>GENERAL</b>		
Ventilation	Forced cooling	
Temperature - Operation	-20°C ~ +70°C	
- Storage	-25°C ~ +80°C	
Protection		

a. Output short circuit	V	
b. Over load	V	
c. Battery voltage too high	V	
d. Battery voltage too low	V	
e. DC voltage ripple too high	V	
f. Temperature sensor		
Transformer	V (105 °C)	
Electronic & powerstage	V (70 °C)	
BTS-3	V (50 °C)	
Humidity	0~95% (non-condensing)	
Power control Function	V	
Power assist Function	V	
Uninterrupted AC power	V (less than 10 msec)	
Adaptive 4-stage charge	V	
Two output to charge 2 battery banks	V	
Auxiliary Relay	x 3	
Battery voltage sensor	V	
Battery temperature sensor (BTS-3)	V	
Remote control port	V	
<b>INVERTER</b>		
Input Voltage Range (VDC)	9.5~16V / 19~32V / 38~64V	
Output Voltage (VAC)	185~240VAC / 90~120VAC	
Output Frequency	50Hz / 60Hz ± 0.1%	
Output Waveform	Pure Sine Wave	
Output Voltage THD	< 5%	
Power Factor (All Loads)	V	
No linger load, crest factor	3 : 1	
Cont. Power Output (W) Under 70 °C (cosθ=1.0)	1500W (No derate)	3000W (No derate)
Cont. Power Output (W) Over 70 °C (cosθ=1.0)	0W (Shutdown)	0W (Shutdown)
Maximum Power (W)	3000W	6000W
Maximum Efficiency (%)	82 / 84 / 85	84 / 86 / 89
Zero-load Power (W)	12W	18W
<b>CHARGER</b>		
Input Voltage Range (VAC)	200~250VAC / 100~125VAC	
Input Frequency	45~55Hz / 55-65Hz	
Power Factor	1	
Charge Characteristic	4-stage adaptive / Bulk-Absorption-Float-Equalize	
Maximum DC Voltage Ripple (Vrms)	< 1.25 V	
Charge Current House Battery (A)	70A / 40A / 20A	140A / 70A / 40A
Charge Current Starter Battery (A)	4A	
Absorption Voltage Default (VDC)	14.4V / 28.8V / 57.6V	
Float Voltage Default (VDC)	13.8V / 27.6V / 55.2V	
Equalize Voltage Default (VDC)	13.2V / 26.4V / 52.8V	
Output Charge Voltage (min~max)	8V~16V / 11V~32V / 22V~64V	
Battery Temperature Sensor	BTS-3	
<b>SOLAR CHARGE</b>		
System voltage ratings	12 / 24 / 48VDC	
Current ratings-Battery Charge Control	40A	

Accuracy	12 / 24V : $\leq 0.1\% \pm 50 \text{ mV}$ 48V : $\leq 0.1\% \pm 100 \text{ mV}$	
Min. voltage to operate	9V	
Max. solar array Voc	140V	
Max. operating voltage	68V	
Total current consumption	While operating -25mA, at idle -3mA	
High temp shutdown	90 °C disconnect solar 70 °C reconnect solar	
<b>Transient surge protection</b>		
a. pulse power rating	4500 watts	
b. response	< 5 nanosec	
<b>ENVIRONMENTAL</b>		
Ambient temperature	-40 °C to +45 °C	
Storage temperature	-55 °C to +85 °C	
Humidity	100% (NC)	
<b>AC INPUT SWITCH</b>		
AC IN Terminal Circuit Breaker	30A (110V) / 15A (220V)	60A (110V) / 30A (220V)
Switch-over Time		
a. inverter to AC input	0 msec.	
b. AC input to inverter	0 msec.	
Detection Time AC Input Fault	4~10 msec.	
Trip Level AC Input to Inverter	90VAC / 180VAC	
Trip Level Inverter to AC Input	94VAC / 187VAC	
Min. ~ Max. Frequency Range	45~55Hz / 55~65Hz	
<b>MECHANICAL</b>		
Cabinet / Protecting Class	Aluminum / IP20	
Dimension (HxWxD) mm	Wall: 298 x 256x 368 Table: 189 x 285 x 494	Wall: 355 x 256 x 368 Table: 189 x 285 x 708
Weight (kgs)	30	35



**Front Panel**



**Back Panel**

**Accessories for option:**

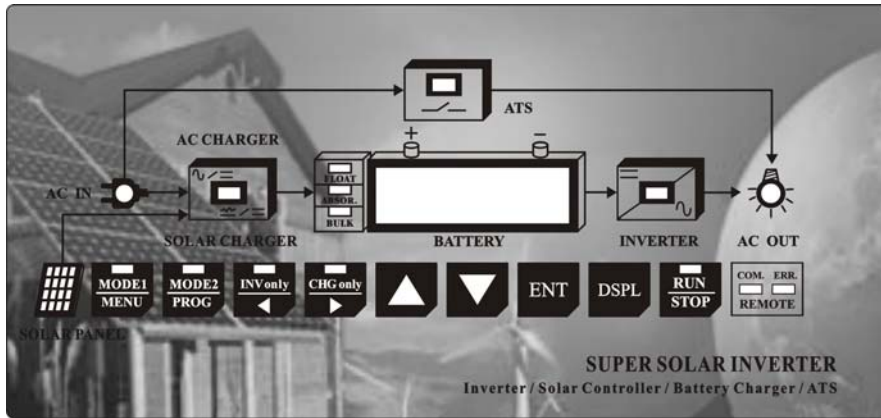


**DC Cable**



**Remote Control SSL-RC03-R / SSL-RC15-R**

# SSL-RC03-R / SSL-RC15-R



**Description:**

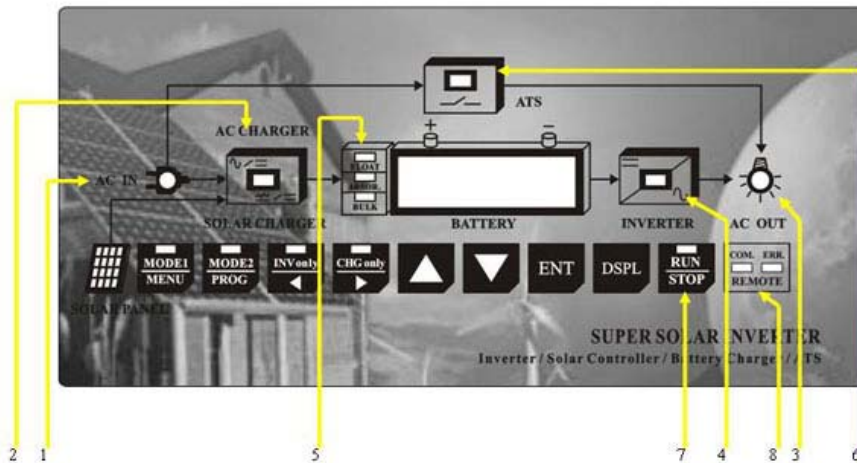
**SSL-RC03-R : Remote control box with 3M wire.**

**SSL-RC15-R : Remote control box with 15M wire.**

You can control everything on the remote control.

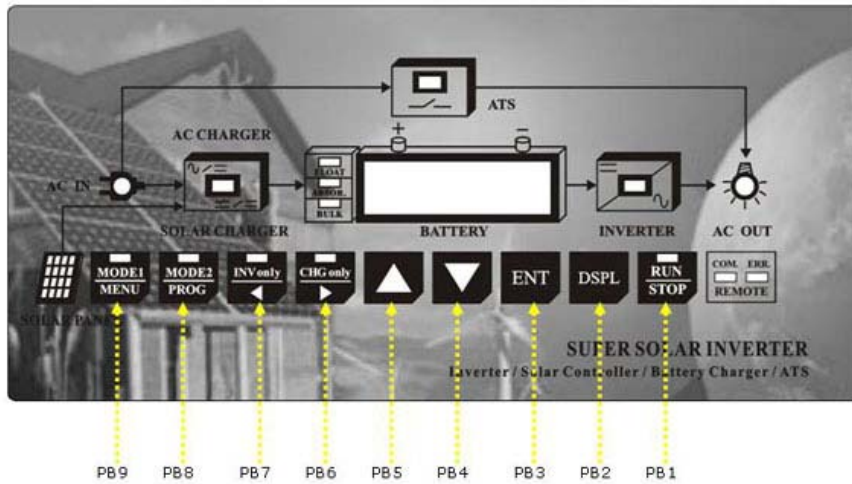
**Specifications:**





☆ LED Indicators



LED	Name	LED ON	LED OFF
1	AC IN	1. Input voltage normal, and position > "transfer Voltage Level" (150VAC~240VAC) 2. Input voltage frequency range in between (45~65Hz)	No input power
2	AC CHARGER	Green : Battery charger is working.	
3	AC OUT	There is voltage at the AC OUT terminal.	
4	INVERTER	Green : Inverter is working.	
5	BATTERY	FLOAT or ABSOR. Or BULK charge state of battery.	
6	ATS	Green : ATS switch is active AC IN voltage is being sent directly to AC OUT terminal	
7	RUN/STOP	Green : SSL series turn on. Red : SSL series turn off. NOTE: Green Blink : Auto-Restart is in use	
8	COM./ERR.	Remote control port in communication/in error	

☆ Push Buttons



Push Buttons	Name	Description
PB1	RUN/STOP	SSL series RUN/STOP key
PB2	DSPL	Multi-display select key
PB3	ENTER	Data write-in key
PB4	DOWN (▽)	▽ Decrement key
PB5	UP (Δ)	Δ Increment key
PB6		AC Input power to charge the battery. Function Key to move Cursor to the right digit at Parameter Edit.
PB7		DC power from battery to supply to AC loads. Function Key to move Cursor to the left digit at Parameter Edit.
PB8		AC Generator Support with Dynamic Power Shifting. Function Key to return to Main Menu "Programming"
PB9		AC Power as Priority Support. Function Key to return to Main Menu "Operation".
Before changing from one mode to another, it has to stop running and be in STOP mode.		