

# SI Series 1500W~3000W

Stackable & 3 phase connectable sine wave Inverter / Charger  
Compatible with solar charge controller Premium series (Max. 10units)



Power Master  
Technology Co., Ltd

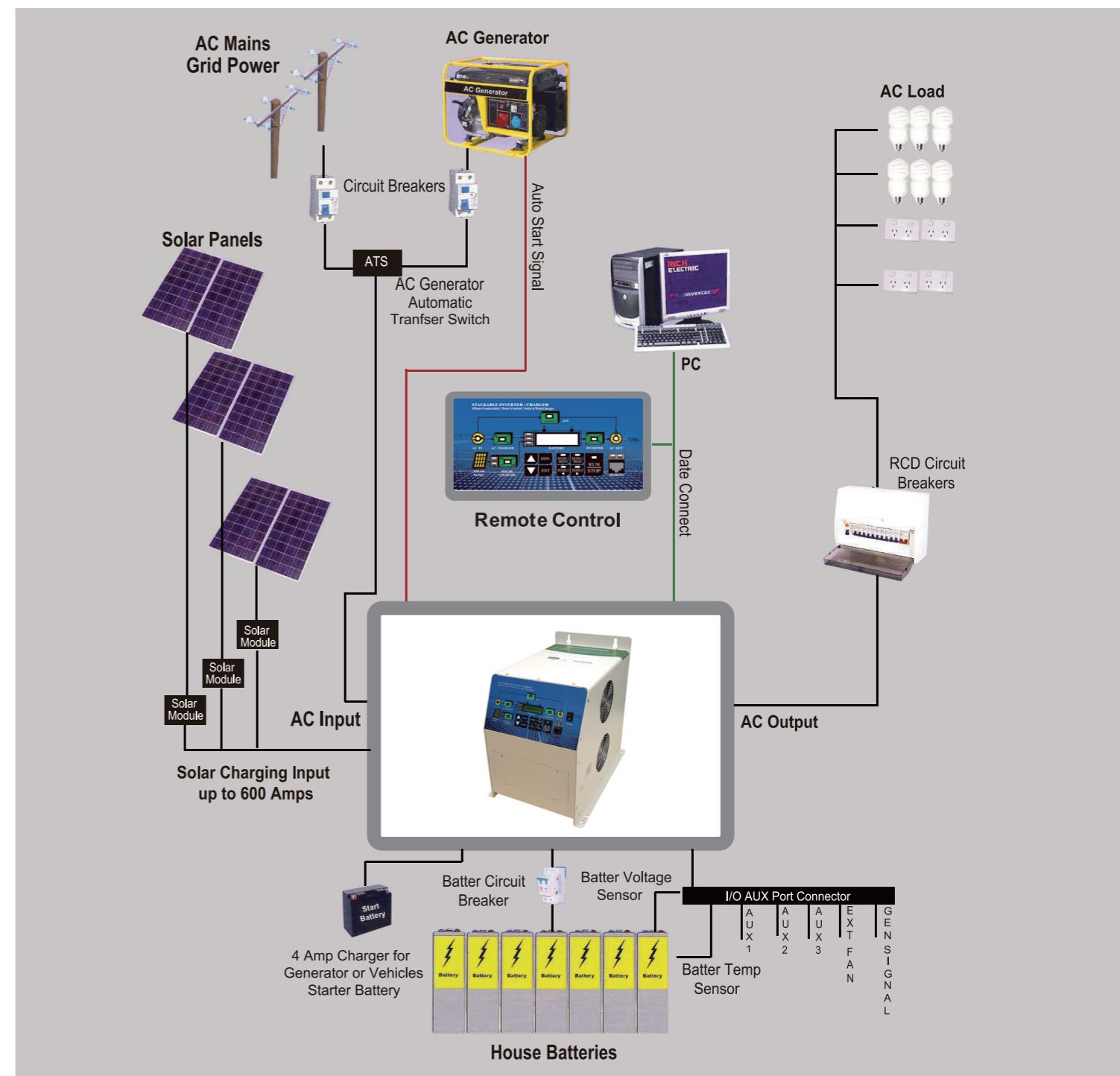


# Specification

MODEL	PM - 1500SI	PM - 3000SI
<b>GENERAL</b>		
Ventilation	Forced cooling	
Temperature	-20°C ~ +70°C	
- Operation	-25°C ~ +80°C	
- Storage		
<b>Protection</b>		
a. Output short circuit	✓	
b. Over load	✓	
c. Battery voltage too high	✓	
d. Battery voltage too low	✓	
e. DC voltage ripple too high	✓	
f. Temperature sensor		
Transformer	✓ (105°C)	
Electronic & powerstage	✓ (70°C)	
BTS -3	✓ (50°C)	
Humidity	0~95% (non condensing)	
Power control Function	✓	
Power assist Function	✓	
Uninterrupted AC power	✓ (less than 10 msec)	
Adaptive 4-stage charge	✓	
Two output to charge 2 battery banks	✓	
Auxiliary Relay	× 3	
Parallel operation	✓ (Max. 5 sets)	
3-phase capacity	✓	
Battery voltage sensor	✓	
Battery temperature sensor (BTS-3)	✓	
Remote control port	✓	
Extension port (Port C)	✓	
<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 sinewave	
Output Voltage THD	< 5%	
Power Factor (All Loads)	✓	
No linger load, crest factor	3 : 1	
Cont. Power Output (W)	1500W	3000W
Under 70°C (cosθ =1.0)	(No derate)	(No derate)
Cont. Power Output (W)	0W	0W
Over 70°C (cosθ =1.0)	(Shutdown)	(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	
Equalze 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>AC INPUT SWITCH</b>		
AC IN Terminal Circuit Breaker	15A (120V) / 15A (230V)	30A (120V) / 15A (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 (H×W×D) mm	362 × 258 × 370	424 × 258 × 370
Weight (kgs)	30	35

# Feature

- ★ Programmable Solar Inverter and multi functions.
- ★ Solar charge controller (optional).
- ★ Stackable function (1unit + 1unit = 2units) upto 5units (1phase) and 15 units (3phase).
- ★ 3 Phase connectable.
- ★ Compatible with solar charge controller Premium series (Max 10units).
- ★ Power Control – Dealing with limited generator, shore side or grid power.
- ★ Power Assist – Boosting the capacity of shore or generator power.
- ★ Programmable 3 auxiliary relay.
- ★ Intelligent shore and generator power management



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