

Feature

- ★ Programmable Solar Inverter and multi functions.
- ★ Solar charge controller Premium series 40Amp fixed.
- ★ 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.



Specification

MODEL	PM-1500SSL	PM-3000SSL
GENERAL		
Ventilation	Forced cooling	
Temperature - Operation - Storage	-20°C ~ +70°C -25°C ~ +80°C	
Protection		
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	
Battery voltage sensor	✓	
Battery temperature sensor (BTS-3)	✓	
Remote control port	✓	
INVERTER		
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) 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

CHARGER		
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	
SOLAR CHANGE CONTROLLER 40A		
ELECTRICAL		
System voltage ratings	12 / 24 / 48VDC	
Current ratings-Battery Charge Control	40A	
Accuracy	12 / 24V : ≤0.1% ± 50 mV 48V : ≤0.1% ± 100 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	
Transient surge protection		
a. pulse power rating	4500 watts	
b. response	< 5 nanosec	
ENVIRONMENTAL		
Ambient temperature	- 40 to + 45°C	
Storage temperature	- 55 to + 85°C	
Humidity	100% (NC)	
AC INPUT SWITCH		
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	
MECHANICAL		
Cabinet / Protecting Class	Aluminum / IP20	
Dimension (H×W×D) mm	Wall: 298 × 256 × 368 Table: 189 × 285 × 494	Wall: 355 × 256 × 368 Table: 189 × 285 × 708
Weight (kgs)	30	35