

General specification

Power star LW

Input Wave Form:	Sine wave (Utility or Generator)					
Nominal Voltage:	120VAC			230VAC		
Low Voltage Trip:	90V±4%			184V/154V±4%		
Low Voltage re engage:	100V±4%			194V/164V±4%		
High Voltage Trip:	140V±4%			253V±4%		
High Voltage re engage:	135V±4%			243V±4%		
Max Input AC Voltage:	150VAC			270VAC		
Nominal Input Frequency:	50Hz or 60Hz (Auto detect)					
Low freq trip:	47Hz for 50Hz, 57Hz for 60Hz					
High freq trip:	55Hz for 50Hz, 65Hz for 60Hz					
Output wave form:	(Bypass mode) same as input					
Overload protection:	Circuit breaker					
Short circuit protection:	Circuit breaker					
Transfer switch rating:	30amp or 40amp					
Efficiency on line transfer mode:	95%+					
Line transfer time:	10ms Typical					
Bypass without battery connected:	Yes					
Max bypass current:	30amp or 40amp					
Bypass over load current:	35amp or 45amp: Alarm					
Inverter Specification/output						
Output wave form:	Pure sine wave					
Output continuous power Watts:	1000	2000	3000	4000	5000	6000
Output continuous power VA:	1000	2000	3000	4000	5000	6000
Power factor:	0.9-1.0					
Nominal output voltage rms:	120/230VAC					
Output voltage regulation:	+ /- 10% RMS					
Output frequency:	50Hz ± 0.3Hz or 60Hz ± 0.3Hz					
Nominal efficiency:	>88%					
Surge ratings:	3000	6000	9000	1200	1500	18000
Short circuit protection:	Yes, fault after 10 secs					
Inverter Specification/input						
Nominal Input voltage:	12V		24V		48V	
Minimum start voltage:	10V		20V		40V	
Low battery alarm:	10.5V		21V		42V	
Low battery trip:	10V		20V		40V	
High voltage alarm:	16V		32V		64V	
Power saver:	Below 25 watts when enabled					
Power saver:	Same switched on/off on remote					
Charger Mode specification						
Input voltage range:	95-127VAC 194243VAC/164243VAC(W)					
Output voltage:	Dependent on battery type					
Charger current:	35A / 70A					
Battery initial voltage for start up:	10-15.7v for 12v(*2 for 24v, *4 for 48v)					
Over charge protection shutdown:	15.7v for 12v (*2 for 24v, *4 for 48v)					
Charger curve(4 stage constant current)Battery types						
4 step digital controlled progressive charge						
Battery type:	Fast V	Float V (*2 for 24v, *4 for 48v)				
Gel U.S.A	14.0	13.7				
A.G.M 1	14.1	13.4				
A.G.M 2	14.6	13.7				
Sealed Lead Acid	14.4	13.6				
Gel Euro	14.4	13.8				
Open Lead Acid	14.8	13.3				
Calcium	15.1	13.6				
Desulphation	15.5 for 4hrs					
Remote control/RS232/USB	Yes. Optional					
Size: in mm	1000/2000/3000 Model : 442*218*179					
	4000/5000/6000 Model : 598*218*179					
Weight:	1000	2000	3000	4000	5000	6000
	18kg	20kg	22kg	35kg	38kg	40kg

Ordering Information

Typical part number ► **LW** - **1000** - **E** - **12**

1. Basis series

Low frequency pure sine wave
Inverter & Charger

2. Power Rating

1000=1000W 2000=2000W 3000=3000W
4000=4000W 5000=5000W 6000=6000W

3. AC Voltage

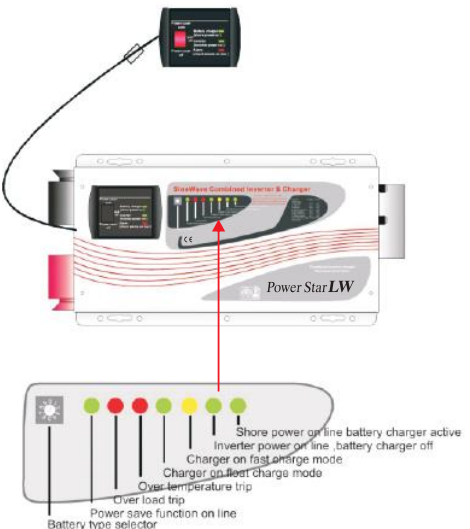
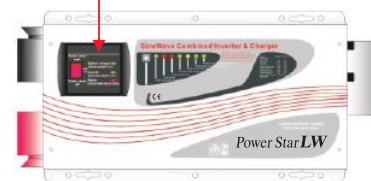
E=110VAC NC=220VAC

3. Battery Voltage

12=12VDC 24=24VDC 48=48VDC

Remote control installation

remove 4 screws holding this panel and disconnect the cable behind it:



Indication & fault finding chart

Status	Function	L.E.D.s on main unit				L.E.D.s on remote			
Charge Function	Constant current charge	on	on	on	on	on	on	on	on
	Constant voltage charge	flash	on	on	on	on	on	on	on
	Float	on	on	on	on	on	on	on	on
	Standby								
Inverter mode	Inverter on			on				on	
	Power saver on	on							
Alarms	Battery low voltage			on		beep 0.5 s every 5 s		on	on
	Battery high voltage			on		beep 0.5 s every 5 s		on	on
	Over load (inverter mode)	on		on		beep 0.5 s every 5 s		on	on
	Over temp (inverter mode)	on		on		beep 0.5 s every 5 s		on	on
	Over temp (line mode)	on		on		beep 0.5 s every 5 s		on	on
	Over charge	on		on		beep 0.5 s every 5 s		on	on
Fault Mode	Fan lock					beep continuous			
	Battery high voltage			on		beep continuous		on	
	Inverter mode overload	on				beep continuous			
	Over temperature	on				beep continuous			
	Back voltage					beep continuous		flash	flash