

The Solar Power System consists of a solar module, which converts the sunlight into electricity and a low maintenance, lead acid tubular or VRLA battery for storing the electricity. The charging of the battery is done through a highly sophisticated and efficient Solar Charge Controller, which is in-built to the inverter. AC appliances within the rated power of inverter can be connected to the outlet of the inverter (230V, 50Hz.). The inverter uses the most advanced technology and provides a clean sine wave output. For connecting DC appliances like DC fans, DC lamps etc., 12V DC outlet is also provided in the Solar Power System.

Solar Power Systems can be employed for any application where the requirement is for clean, reliable and uninterrupted power. Solar Power Systems are convenient and safe compared to Diesel Generators due to its outstanding advantages such as quite and un-attended operation and very low maintenance.



### FEATURES

- Safe and easy to install
- Free from noise, smoke and pollution
- Requires very little maintenance
- Advance electronic design for charge controller and inverter
- Adequate protections and indications
- Possible to expand the system in future

### TECHNICAL SPECIFICATION & ORDERING INFORMATION

Model	Model-1	Model-2	Model-3	Model-4	Model-5	Model-6
<b>General</b>						
Application	Solar Electrification- Stand alone					
Number of Days of Autonomy	3 Days					
System Input Voltage	12V			24V		
<b>Solar PV Array</b>						
Solar PV Module Type	Mono/poly crystalline silicon					
Solar PV Module Rating	75Wp X 1 No.	50Wp X 2 Nos.		75Wp X 2 Nos.		50Wp X 4 Nos.
Solar PV Array Rating	75Wp	100Wp		150Wp		200Wp.
<b>Battery</b>						
Battery Voltage	12V			24V		
Battery Type	Flooded Lead Acid (Tubular) or VRLA SMF Lead Acid					
Battery Capacity (Flooded)	75AH @ C/10	100AH @ C/10	120AH @ C/10	160AH @ C/10	100AH @ C/10	120AH @ C/10
Battery Capacity (VRLA)	80AH @ C/20	100AH @ C/20	120AH @ C/20	160AH @ C/20	100AH @ C/20	120AH @ C/20
Number of Battery	1			2		
<b>Solar Charge Controller (Built-in)</b>						
Type	Series Pulsed, 2 Step					
Rating	10A (Max.)					
<b>DC Output</b>						
Maximum Load current	10A (Max.)					
<b>Inverter (AC output)</b>						
Output Voltage	230V AC, 50 Hz					
Solar Inverter Model	SIN-MAAB0B	SIN-MAAB0B	SIN-MBAB0B	SIN-MBAB0B	SIN-MCBB0B	SIN-MCBB0B
Output power (Max.)	150VA		300VA		500VA	
Output surge rating	200% of the output Power for 2 seconds					
<b>Load</b>						
Usable Load per day*	250Whr	330Whr		500Whr		670Whr
<b>Module Mounting Structure</b>						
Mounting Type, Material &Finishing	Roof Mounting, Mild steel, Hot Dip Galvanized					
<b>ORDERING INFORMATION (MODEL NUMBER)</b>						
With Flooded battery	SPS-07515A	SPS-10015A	SPS-10030A	SPS-15030A	SPS-15050A	SPS-20050A
With VRLA (SMF) battery	SPS-07515B	SPS-10015B	SPS-10030B	SPS-15030B	SPS-15050B	SPS-20050B

\* @5KWhr. /Day solar insolation