

SURJA PRO

Series
(1150-6500)

COMPLETE SOLAR SOLUTION
for Homes, Offices & Farms

Reimagine your solar inverter with the first in segment "Solar Maximizer" – a feature so innovative that it brings out the best from your solar panels. The first in its class, it can run entirely on solar power, practically giving you a Zero Electricity bill.

FEATURES



1st in Segment Solar Maximizer



Big Savings on Electricity Bill



Energy Saver Modes



Selectable Solar Charging Current



DSP Technology



Dual Display

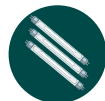
APPLICATIONS



CFL



Bulb



Tubelight



LED TV



Fan



Computer



Motor*
(0.5/1 HP)

LOAD CHART

MODEL	1150	2000	2450	3200	3500	4200	6500
Battery Compatibility	12V	24V	24V	24V	48V	48V	48V/96V
Solar Controller Capacity	40A	50A	50A	50A	60A	70A	85A / 50A
Tube light (Electronic Choke)	3	3	4	6	8	10	3
Ceiling Fan	2	2	4	5	6	8	3
LED Bulb 9W	2	2	X	X	X	X	X
CFL 15W/14W	2	9	10	15	32	35	10
Colour TV (42" LED/LCD)	1	X	2	2	2	2	1
PC with 14" TFT/LCD	X	2	X	X	X	X	X
Split AC (2 Ton)	X	X	X	X	X	X	X
Window AC Split AC (1.5 Ton)	X	X	X	X	X	X	1
Single Door Refrigerator (165Lts)	X	X	X	X	1	1	X

* Due to continuous product development our specification are subject to change without notice

* Size of monoblock motor in applications depends upon the model capacity



TECHNICAL SPECIFICATIONS

Model Name	1150	1500	2000	2450	3200	3500	4200	6500	6500	10000	
System Rating (VA/W)	900 VA	1500 VA	1625 VA	2000 VA	2375 VA	3500 VA	4125 VA	5 KVA		10000 VA	
Nominal Input Battery Voltage	12 V	24 V				48 V			96 V	120 V	
Solar Charger Rating	40 A	30 A	50 A		60 A	70 A	85 A	50 A	60 A		
Input Parameters											
Main Input Voltage Range (UPS Mode)	180 VAC - 265 VAC ± 5 VAC										
Main Input Voltage Range (Normal Mode)	100 VAC - 280 VAC ± 15 VAC										
Battery Charging											
Max. Grid Charging Current to Battery	15 A										
Max. Solar Charging Current to Battery	20 A	30 A	25 A		30 A	25 A		60 A			
Modes											
Energy Saver Mode	Via Switch (Front Side Touch Feel)								Via Switch (Back Side)		
Solar Charging Selection Mode	Via Switch (Front Side Touch Feel)								NA		
Grid Charging ON/OFF Mode	NA								Via Switch (Back Side)		
UPS/NORMAL Mode	Via Switch (Front Side Touch Feel)								Via Switch (Back Side)		
Output Parameters											
Wave Form Type	PURE SINE WAVE										
Output Voltage Regulation	200 VAC ± 10%										
Output Frequency	50Hz ± 0.5Hz										
Peak Efficiency (with linear load)	≥ 73%	≥ 75%		≥ 77%		≥ 80 %		≥ 85%			
Distortion (THD)	≤3% on linear load										
Overload Protection	Provided at >100% with Auto Reset										
Low Battery Protection	Provided at < 10.4V (Per Battery) with Auto Reset										
Short Circuit Protection	Provided at ≥300% with Manual Reset										
Over Temperature Protection	Provided at ≥85deg. C							Provided at >90deg. C			
Change Over Time											
In UPS Mode	≤12 milliseconds										
In Normal Mode	≤50 milliseconds										
Battery Parameter (Per Battery)											
Boost Voltage	14.4 VDC ± 0.2 VDC										
Float Voltage	13.5 VDC ± 0.2 VDC										
Low Battery Cut	10.4 VDC ± 0.2 VDC										
Solar Charge Controller											
Type	PWM										
Solar Input Voltage range (Vmpp)	15V - 30V	30V-42V			60V-95V			120V - 190V	150V - 235V		
Max Solar DC Input Voltage (Voc)	37 V	50 V			100 V			200 V	250 V		
Maximum Solar Array	660 W	1000 W	1600 W		3500 W	4200 W	5200 W	6700 W	10000 W		
Max. Solar Current	40 A	30 A	50 A		60 A	70 A	85 A	50 A	60 A		
Environment											
Forced Cooling	Through Cooling FAN										
Humidity	0-90% Non Condensing										
Operating & Storage Temperature	0-45deg. C										
Display Parameters											
Display Type	Dual Display (LCD & LED)								LCD Display		
Parameters	Solar ON/OFF, Switch On/Off, Main On/Off, Main										
Connectivity	Wifi (Optional)										
Mechanical Parameters (Without Packing)											
Dimension (LxWxH) mm	275x230x133	265x400x167		275x260x300	320x340x450		410x350x500		450x400x680		
Note : Specifications and models subject to change without prior notice											