

SUNMAX

SOLAR INVERTER

PRODUCT DESCRIPTION

Introducing the all new Tandhan Power-Sunmax series. In a world of me-too-products, you will find Pure Sine Wave Solar PCU a generation ahead of the entire category. That is because our breakthrough 'chip embedded sine wave' technology delivers the same current as you get from your mains.

PRODUCT HIGHLIGHTS

- Sine Wave Output suitable for PC
- DSP Based Intelligent Control Circuit
- DSP Based Smart Charger
- Smarter Overload Senses and Short Circuit Protection
- Battery State Monitoring
- Graphical (LED)/LCD Display (Message and Faults)
- Great Power Saving



Range 1 KVA to 5 KVA

PRODUCT SPECIFICATIONS



MODEL NAME	SUNMAX 1150	SUNMAX 2000	SUNMAX 3500	SUNMAX 5000	SUNMAX 5000
System Rating (VA/W)	900 VA	2000 VA	3500 VA	5 KVA	
Nominal Input Battery Voltage	12V	24V	48V		96V
Solar Charger Rating	40A	50A	60A	80A	50A
INPUT PARAMETERS					
Nominal Input Battery Voltage	12V	24V	48V		96V
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	15A				
Max. Solar Charging Current to Battery	20 A	30 A		25 A	
MODES					
Energy Saver Mode	Via Switch (Front Side Touch Feel)				
Solar Charging Selection Mode	Via Switch (Front Side Touch Feel)				
Grid Charging ON/OFF Mode	Via Energy Saver Modes				
UPS/NORMAL Mode	Via Switch (Front Side Touch Feel)				
OUTPUT PARAMETERS					
Wave Form Type	PURE SINE WAVE				
Output Voltage Regulation	200 VAC ± 10%			200 VAC ± 10%	
Output Frequency	50 Hz ± 0.5 Hz				
Peak Efficiency (with linear load)	≥ 73%	≥ 77%	≥ 80 %		
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 ≥85°C		Provided at >90°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				
Battery Type	12 V (100Ah to 240Ah)	12 V (100Ah to 300Ah)			
SOLAR CHARGE CONTROLLER		PWM			
Solar Input Voltage range (Vmpp)	15V - 30V	30V-42V	60V-84V		120V - 170V
Max Solar DC Input Voltage (Voc)	37 V	50 V	100 V		200 V
Maximum Solar Array	660 W	1600 W	3500 W	5000 W	6700 W
Max. Solar Current	40A	50A	60A	80A	50A
Charger Efficiency	Uptp 92%				
ENVIRONMENT					
Forced Cooling	Through Cooling FAN				
Humidity	0-90% Non Condensing				
Operating & Storage Temperature	0-45°C				
DISPLAY PARAMETERS					
Display Type	Dual Display (LCD & LED)				
Parameters	Solar ON/OFF, Switch On/Off, Main On/Off, Main Fuse Blown / MCB Trip, Load Level Graph, PV Current & Voltage, Warnings & Protections, System Capacity, Energy Saver Mode On/Off, UPS/Normal Mode Status Etc				
Connectivity	Bluetooth / Wifi (Optional)				
MECHANICAL PARAMETERS (WITHOUT PACKING)					
Dimension (LxWxH) mm	275x230x133	265x400x167	315x290x460	410x350x500	