

SOLAR HOME & COMMERCIAL UPS

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(Range 100 VA - 15 KVA)



**Inbuilt Solar Charger with PCU*
PWM/MPPT*



Salient Features

- State of the art MOSFET/IGBT Based PWM Technology to increase Crest Factor.
- Auto Sense Intelligent Control Smart Charger.
- Fast change over time for computer applications.
- Battery Selection mode with T1 & T2 for longer battery backup & life. (T1 for Tubular & T2 for SMF/Automotive Battery)
- Quiet operation of AC motors as well as other inductive loads unlike the noise that emanates from Modified Sine Wave Systems.
- Very low Total Harmonic Distortion < 2%.
- Fully Auto Priority based charger for preference to Solar than Mains. (For maximum utilization of Solar & hence reduces Electricity Bills)
- TDR (Time Delay Relay), Especially for AC compressor based applications (from 2.5-12 KVA)
- Protections for Short Circuit, Overload, High Temp. & Low Battery.
- Surge Load Capacity upto 300%.
- Less Operating Cost as compared to Online UPS as well as DG Sets.
- Advanced auto bypass in case of System Failure.
- Compatibility with D.G. Sets.
- Available with SCR & Relay change over for more reliability.

Applications

- Major Power Back up source in Corporate Offices as well as Call Centres
- Computers & Peripherals/Office Equipment like, Scanners, Printers, Fax machines etc.
- Emergency & Mobile Power Systems
- A.C. and All Compressor Based Applications
- Petrol/Diesel Dispensing (Filling) Machines
- Tread Mills & other Health Equipments in Home/Gym
- Water Pumps and similar Motor Based Applications
- Specially Designed for Embroidery Machines

FORTUNER
(Solar & Power Solution Provider)

DSP SINE WAVE UPS

Technical Specifications*



1.	Model	100VA to 1KVA/12V	1KVA/1.5KVA/2KVA/24V	2.5 KVA/36V to 15 KVA/180V
2.	Input Voltage (UPS Mode)	(180-260)V,45Hz to 55Hz	(180-260)V,40Hz to 60Hz	(180-260)V,40Hz to 60Hz
3.	Input voltage (INV. Mode)	(90-290)V, 45Hz to 55Hz	(90-290)V, 40Hz to 60Hz	(90-290)V, 40Hz to 60Hz
4.	Output Voltage on MAINS Mode	Same as input	Same as input	Same as input
5.	Output Voltage on INV Mode (even min. Battery Volt.)	220±2%(Settable)	220±2%(Settable)	220±2%(Settable)
6.	Switching from MAINS to INV and INV to MAINS	Automatic	Automatic	Automatic
7.	Switching from MAINS to UPS and UPS to MAINS	Automatic	Automatic	Automatic
8.	Output Wave Form on UPS/INV mode	Pure sine wave	Pure sine wave	Pure sine wave
9.	Output THD	<2%	<2%	<2%
10.	Type of Charger	CCCV/Pulse Charger	CCCV/Pulse Charger	CCCV/Pulse Charger
11.	Charging AC Input Range	(130-290)V	(130-290)V	(130-290)V
12.	Charging Current	(1-10 Amp) Selectable	(1-13 Amp) Selectable	(1-15 Amp) Selectable
13.	Surge Load	300% - (3ms)	300% - (3ms)	300% - (3ms)
14.	Switching Frequency of Charger	18KHz	18KHz	18KHz
15.	Efficiency	>80%	>80%	>80%
16.	Topology	Full bridge(DSP Based)	Full bridge(DSP Based)	Full bridge(DSP Based)
17.	INVERTER Over Load	Above 100%	Above 100%	Above 100%
18.	Short Circuit Protection (O/P)	CT sense	CT sense / Cycle by cycle	CT sense / Cycle by cycle
19.	Battery low shut down	Yes	Yes	Yes
20.	Auto restart low battery/over load	Yes	Yes	Yes
21.	Display	LED/LCD	LED/LCD	LED/LCD

Zero Drop Solar Charger Specs(*Valid for Solar Hybrid & PCU Models only)

22.	PV Panel Input Voltage	12V-21V	24V - 44V	48V/72V/96V
23.	Output Voltage	12-15V	24 - 30V	48-60V/ 72-90V/96-120V
24.	Output Current	10 - 40 Amp	10 - 40 Amp	10 to 40 Amp
25.	Battery Full Charge cutoff	13.8V - 14.4VDC	27.6 - 28.8 VDC	57.6/86.4/115.2 VDC

SOLAR CHART*

Battery Voltage	12V DC	24V DC	36V DC	48V DC	96V DC
Battery maximum Cutoff	14.4V DC	28.8V DC	43.2V DC	57.6V DC	115.2V DC
Solar Charging (In Amps)	10/20/30/40	10/20/30/40	10/20/30/40	10/20/30/40	10/20/30/40
Panel maximum Open Circuit Volt.	30V DC	45V DC	70V DC	90V DC	200V DC
Suggested Panels in Wattage	200/400/600/800	400/800/1200/1600	600/1200/1800/2400	800/1600/2400/3200	1600/3200/4800/6400



Other Product Range

- Solar Panel
- Solar Inverter
- Solar Home Lighting System
- Solar Charge Controllers
- Solar Water Pump Controllers
- Solar Hybrid/PCU
- Tubular / SMF Batteries
- Online UPS
- LED Bulb & Tubes

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*Conditions apply