

DSP SINEWAVE HOME UPS

DSP
Technology

SMPS
Based Charger



850VA ~ 1.8KVA



3KVA ~ 12.5KVA



YOUR TRUMP CARD AGAINST POWER CUTS

'IPS' 100% Pure Sinewave digital home UPS is an efficient and reliable system, based on DSP (Digital Signal Processing) technology ensures lower component failure, hence higher reliability.

The SMPS technology based battery charging system ensures faster and safe charging. Because of the very low ripple current longer battery life is projected. Batteries are charged from an input mains voltage as low as 120VAC

SALIENT FEATURES:

- 100% Pure Sinewave Waveform
- Wider input voltage range (110-290V)
- DSP Micro Controller PWM Technology using MOSFET
- SMPS based CVCC charger with float-cum-boost voltage
- Automatic reset at overload (5 times)
- 110% overload protection
- 300% short circuit protection
- 5 stage battery charge control system
- Inverter output reverse phase protection
- Portable, Pollution free, Noiseless & Maintenance free

LOAD CHART

RATING	DC	LOAD A	LOAD B
850VA	12V	1PC+3F+3T+4CFL	1TV+2F+2TL+1RC
1400VA	12V	2PC+4F+4T+4CFL+1TV	1PC+2F+3T+2TV+1RC
1500VA	24V	2PC+4F+4T+9CFL+1RC	1PC+3F+4T+5CFL+1TV+1DC
1800VA	24V	2PC+6F+5T+9CFL+1TV	3PC+4F+4T+4CFL+1DC
2200VA	24V	4PC+6F+5T+9CFL+1TV	3PC+5F+5T+7CFL+1TV+1FR
3000VA	24V/48V	7PC+6F+7T+8CFL+2TV	5PC+6F+7T+8CFL+2TV+1FR
4200VA	48V	11PC+8F+9T+2TV	1F+1T+1CFL+1AC (1.5T)
6000VA	48V/96V	For Big House/Office as per load calculation table	

Note: Indicative values only, actual calculation depends on manufacturer specifications. PC- 200VA, Tube Light(T)- 80VA, CFL- 17VA, LCD TV - 53cm -200VA, Ceiling Fan (F) 48mm (3 Blades)-100VA, Room Cooler (RC)- 300VA, Desert Cooler(DC)-450VA, Fridge (FR)-280ltr, AC-1.5T (Split). Load may vary for different brands.

Technical Specifications

Capacity	850VA	1400VA	1500VA	1800VA	3KVA	4.2KVA	6KVA	10KVA	12.5KVA
Model	SHU850	SHU1400	SHU1500	SHU1800	SHU3000	SHU4200	SHU6000	SHU10000	SHU12000
Battery Voltage	12VDC	12VDC	24VDC	24VDC	24/48VDC	48VDC	48/96VDC	120VDC	180VDC
Input Voltage Range	110V-290VAC (Inverter Mode), 180V-250VAC (UPS Mode)								
Input Frequency	50Hz +/- 10%								
Output Voltage	220V +/- 2% (On Battery Mode)								
Output Frequency	50Hz +/- 1% (On Battery Mode)								
Output Power Factor	0.65 to 0.8								
THD	<3%								
Output Waveform	100% Pure Sinewave								
Overload	110%								
Charging Current	7A / 10A / 12A / 15A / 20A / 25A (Settable)								
Charging Process	In Five Stage								
Mode Control	UPS / Inverter						Optional in 6KVA ~ 12.5KVA		
Protections	Reverse phase, Short circuit, Over temperature, Overload, Battery Loose								
Alarms	6 separate audio tones are generated								
	Reset/DC high/Battery Loose Vande Mataram			Phase Reverse or Short Nagin			Hot or Fuse Fail Om Jai Jagdish Hare		
	Overload/Output Low Sare Jahan Se Achha			Battery Low or Bad O O Jane Jana			Battery Water Reminder O Meri Zohra Zable		
Indicators	Mains, Inverter ON, Low Battery, Charging, Over Load								
Relative Humidity	95% RH Non Condensing								
Operating Temp.	0°C-50°C								
Dimensions (WxDxH) in mm	275x270x120			330x300x145		270x376x363		305x432x406	
Weight in Kg.	10.2	13.5	14	15	21	32	35	41	
STANDARDS									
Safety	IEC/EN 62040-1-1, IEC / EN 60950								
EMC / Performance	IEC/EN 62040-2, IEC/EN 62040-3, IEC/EN 61000-4, IEC/EN 60146								

All specifications are subject to change without prior notice due to continuous technology up

Load Calculation Table

ITEM	LOAD	ITEM	LOAD
PC with TFT Monitor 15"/17"/19"	150VA/200VA/250VA	Desert Cooler/Room Cooler	450VA/300VA
Deskjet Printer/Laser Printer	150VA/700VA to 1KVA	Bulb/CFL	As per Actual
Scanner/Modem	125VA/75VA	Tube Light Good Choke/Inferior Choke	75VA-80VA/105VA-110VA
Fax Machine	125VA to 150VA	Colour LCD/LED TV (53 cm/73 cm)	150VA-250VA
Fan Below 48" / Above 48" size	100VA/125VA	Set Up Box	40VA
A.C. 1T/1.5T/2T	3KVA/4KVA/5KVA	Fridge (165/220/280/300/340) in ltr	150VA/300VA/350VA/450VA/550VA

*Note : Load may vary for different brands. The above mentioned values are just indicative.

Rating Calculation : e.g. 4.2KVA x 0.7PF = 2940W = 30Nos x 100W / 250V Bulb each.

Our Other Products :

- Line-Interactive UPS • Online UPS • Servo Stabilizer •
- Solar Hybrid PCU • Isolation Trx • Battery Charger • Converter & Battery



ISO 16242 (Part-1) : 2014



R - 94000477



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