

ADVANCED TECHNOLOGY BASED DSP SINE WAVE SOLAR INVERTER / UPS

SOLAR HYBRID INVERTER (100 VA TO 10 KVA)

HOME UPS (100 VA TO 2 KVA)

STATIC UPS (2.5 KVA TO 10 KVA)

WITH LCD DISPLAY WITH INBUILT PRIORITY SOLAR CHARGER UPTO 40 AMPS

Now also available
- With inbult MPPT
Charger
- With PCU Function









Salient Features:

- * Advance Feature for Battery Selection By- T1 & T2 mode (T1 for Tubular, T2 for Automotive/SMF
- * With Fully Auto Solar priority Charger (giving 1st preference to solar than MAINS as per availability)

The First ever Inverter in India comes with specially designed pulse charger which prevents sulfation:-

- 1. Designed on DSP (Digital Signal Processing) based PWM technology
- 2. Fast Change over ensuring Compatibility with Computer
- 3. Charges the battery with constant voltage/wattage at a very high efficiency thus saving upto 70% on electricity cost
- 4. 130V to 290V Wide Range CC Pulse Charging
- Charges the battery without increasing its temperature thus increase the battery life
- 6. Minimum loss while conversion from DC to AC
- 7. Protections :- I) Short Circuit
- II) Low Battery
- III) Over Load Protection
- IV) High Temp
- 8. State of the art MOSFET/IGBT based PWM Technology to increase Crest Factor
- 9. Auto Sense Intelligent Control Smart Charger
- 10. Electronic change-over, hence much better reliability
- 11. Quiet operation of AC motors as well as other inductive loads unlike the noise generating from modified Sine Wave Systems
- 12. TDR (Time Delay Relay), especially for AC compressor based applications (From 2.5 KVA to 10 KVA)
- 13. Surge Load Capacity Upto 300%

- 14. Compatibility with D.G. Sets
- 15. Less Operating Cost as Compared to Online UPS as well as DG Sets
- 16. By Pass Switch in case of System Failure
- 17. Very Low Total harmonic Distortion <3%

Applications

- Major power back up source in corporate offices as well as call centres
- Computers & peripherals/office Equipment like, Scanners, Printers, Fax Machines etc.
- 3. A.C. and all Compressor Based Applications
- 4. Emergency & Mobile Power Systems
- 5. Water Pumps and Similar Motor Based Applications
- 6. Tread Mills & other Health Equipment in homes/Gyms
- 7. Petrol/Diesel Dispensing (filling) Machines
- 8. Best suitable for Banks & ATM Machines.

















Technical Specifications*

1.	Model	100VA to 1KVA/12V	1KVA/1.5KVA/2KVA/24V	2KVA/36V to 10 KVA/180V
2.	Input Voltage (UPS)	(180-260)V,45Hz to 55Hz	(180-260)V,40Hz to 60Hz	(180-260)V,40Hz to 60Hz
3.	Input voltage (INV)	(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	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	85% Typical	85% Typical	85% Typical
16.	Topology	Full bridge(DSP Based)	Full bridge(DSP Based)	Full bridge(DSP Based)
17.	INV over load	Above 100%	Above 100%	Above 100%
18.	Short CKT 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

Battery Voltage	Battery Maximum Cutoff	Solar Charging	Panel Maximum open circuit Voltage	Wattage of the Panel
12V D.C	14.4V D.C	10A/20A/ 30A/40A	30V D.C	200W/400W/ 600W/800W 12V D.C
24V D.C	28.8V D.C	10A/20A/ 30A/40A	45V D.C	400W/800W/ 1200W/1600W 24V D.C
36V D.C	43.2V D.C	10A/20A/ 30A/40A	70V D.C	600W/1200W/ 1800W/2400W 36V D.C
48V D.C	57.6V D.C	10A/20A/ 30A/40A	90V D.C	800W/1600W/ 2400W/3200W 48V D.C
60V D.C	72V D.C	10A/20A/ 30A/40A	120V D.C	1000W/2000W/ 3000W/4000W 60V D.C
72V D.C	86.4V D.C	10A/20A/ 30A/40A	145V D.C	1200W/2400W/ 3600W/4800W 72V D.C
96V D.C	115.2V D.C	10A/20A/ 30A/40A	200V D.C	1600W/3200W/ 4800W/6400W 96V D.C



A PEX POWER CONCEPTS
P O BOX 378542,
DUBAI, UNITED A RAB EMIRATES



www.ApexPowerConcepts.com