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DSP SINE WAVE STATIC UPS & INVERTER SERIES

LENTO
House of Green Energy

PRODUCT DESCRIPTION

Most appliances like LED Bulb, Fans, motor based equipments like air conditioners and pump sets are designed to work at Sine Wave 50Hz frequency. Running such equipments on unregulated quasi sine wave-square wave based inverters poses a risk in regards with performance and durability. Lento DSP sine wave Static UPS and inverters are designed to provide stable 50Hz sine wave irrespective of load and battery voltage, making them the most suitable for inductive, capacitive and non-resistive loads. Importantly, our inverters and UPS are designed to deliver instantaneous high current during start up, especially in case of air conditioners and refrigerators, with safety cut out when battery voltage goes lower then a specified point to aviod brownouts and burning of motors.

SALIENT FEATURES

- DSP Based Design with absolute and stable Sine Wave output voltage and frequency
- State of the art MOSFET based PWM technology with greater efficiency at lower cost with Dynamic Stability
- Over Temperature Protection
- Three stage solar charging (TSSC) suitable for all types of battery charging..
- Deep Discharge Battery charging from A.C. Mains.
- Monitoring/data logging feature for batter system information at user end through SNMP / GPRS (optional)
- Protection such as Mains MCB Trip, overload, short circuit, Battery low, over temperature indication with buzzer as well as display on LCD available.
- AC Mains available, battery charging /charged and its voltage indication provided on LCD display.
- Grid charging enable /disable options which makes it fully compatible with solar (Optional).
- Selectable battery charging current (High /Low).
- Fast change over in UPS mode makes computer compatible .
- Comprehensive LCD Display

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TECHNICAL SPECIFICATIAONS OF STATIC UPS & INVERTER

DESCRIPTION	MODELS							
INVERTER MODEL	2.5KVA/36V & 48V	3KVA/48V	3.5KVA/48V	5KVA/48V	5KVA/96V	7.5KVA/96 & 120V	10KVA/120 & 180V	12KVA/192V
No. Load battery Current	≤ 2.2A							
Max. O/P No. Load Voltage	220V ± 5V				230V ± 5V			
Max. Full Load Voltage	220V ± 7%					230V ±10%		
Max. Load Battery Current Max.	<69 & 49Amp.	<54Amp.	<57Amp.	<106Amp.	<49Amp.	<71 & 65Amp.	<76 & 53Amp.	<62Amp.
Full Load O/P Current	8.5±0.7Amp.	9.5±0.7Amp.	10.5±0.7Amp.	17±0.5Amp.	17±0.5Amp.	27±0.5Amp.	34±0.5Amp.	38±0.5Amp.
Overload Retry	6 Times							
Output Frequency (Inverter Mode)	50.0±1.0Hz							
Batt Low Voltage Alarm	10.5V±0.2V/Batt.							
Batt Low Voltage Cut	10.0V±0.2V/Batt.							
MAINS MODE								
Mains Low Cut	115V±10V							
Recovery	100V±10V			125V±10V		125V±10V		
Mains High Cut	110V±10V			280V±10V		135V±10V		
Recovery	275V±10V							
Change Over time (Mains to Inverter)	<50 ms.							
Change Over time (Inverter to Mains)	<10 ms.							
Battery Low Retry	4 Times							
Short Circuit, Retry	OK, 1 Time							
Permanent Short Circuit Protection	Yes							
UPS MODE								
Mains Low Cut	180V±5V							
Recovery	190V±5V							
Mains High Cut	260V±5V							
Recovery	255V±5V							
Change Over time (Mains to UPS)	<=10 ms.							
Change Over time (Inverter to UPS)	<10 ms.							
MAINS MODE								
Max. Charging Current	20V±2Amp.			25V±1Amp.		20±2Amp.		
Boost Charging Voltage	14.2V / Batt.							
WEIGHT AND DIMENSTIONS								
With Packaging LxWxH in mm	490x420x560	490x420x560	490x420x560	520x480x670	500x495x660	600x500x740	600x500x740	600x500x740
With Out Packaging LxWxH in mm	310x290x450	310x290x450	310x290x450	350x300x540	350x300x540	550x350x660	550x350x660	550x350x660
Net Weight	29	32	32	54	54	78	89	104
Gross Weight	36	39	39	58	58	89	100	115

LOAD CHART*

Application	Load	2.5KVA	3.5KVA	5KVA	7.5KVA	10KVA	12KVA
Petroleum Outlet	Fan	_	2	4	5	5	5
	Tube Light	_	3	4	5	8	8
	Petrol Filling Machine	1	1	2	3	4	4
	Fan Only	25	32	50	75	100	110
Browsing Centre (Type 1)	Fan	15	20	35	55	70	75
	Tube Light	10	15	20	35	40	50
	AC	–	–	1	1	2	2
	Fan	4	6	4	8	8	10
	Tube Light	4	6	4	8	8	10
	Computers	4	5	2	6	6	6
Browsing Centre (Type 2)	Fan	4	6	10	20	20	25
	Tube Light	4	6	10	20	20	25
	Computers	4	5	8	15	15	20
Corporate Bldg.	AC	–	–	1	2	2	2
	Fan	15	20	8	16	16	20
	Tube Light	10	15	8	16	16	20

APPLICATIONS

- Major power back up source in Corporate Offices as well as Call Centers
- Computer & peripherals/office Equipments like, Scanners, Printers, Fax Machine etc.
- Emergency & Mobile Power Systems
- AC and all Compressor Based Applications
- Petrol/Diesel Dispensing (Filling) Mschines
- TREADMILL & other Health Equipment in Homes/Gyms
- Water Pumps and similar Motor Based Applications
- All types of clinical equipments.