



# DSP Sine Wave Static UPS & Inverter series.

## Salient Features & Comparison

Features	Other Brands	Lento
State Of Art MOSFET/IGBT Based PWM Technology to increase Crest Factor.	Yes	Yes
Fast Changeover ensuring reliable Compatibility with Computers	No	Yes
Electronic change over, hence much better reliability others are using relay for changeover whereas we are using SCR (Static Switch)	No	Yes
Selector Switch for Normal/UPS	No	Yes
TDR (Time Delay Relay), especially for AC compressor based applications	Partly Yes(Some brands have some does not have)	Yes
LCD Display Options	Yes	Yes
Surge Load Capacity up to 300%	No	Yes
DSP based which results proper control over voltage and current	No	Yes

## 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
- A.C and all Compressor Based Applications
- Petrol/Diesel Dispensing (Filling) Machines
- TREADMILL & other Health Equipment in Homes/Gyms
- Water Pumps and similar Motor Based Applications
- All types of clinical equipments.

## PRODUCT DESCRIPTION

Most appliances like CFL, fans, motor based equipments like air conditioners and pump sets are designed to work at 50 Hz 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 50 Hz 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 than a specified point to avoid brownouts and burning of motors.



## TECHNICAL SPECIFICATIONS OF STATIC UPS & INVERTER

DESCRIPTION	MODELS							
	2.5KVA/48V	3KVA/48V	3.5KVA/48V	5KVA/48V	5KVA/96V	7.5KVA/120V	10KVA/180V	12KVA/192V
INVERTER MODEL	2.5KVA/48V	3KVA/48V	3.5KVA/48V	5KVA/48V	5KVA/96V	7.5KVA/120V	10KVA/180V	12KVA/192V
No. Load battery Current	≤2.2A							
Max. O/P No. Load Voltage	220V ± 5V				230V ± 5V			
Max. Full Load Voltage	220 ± 7%				230 ± 10%			
Max. load Battery Current Maximum	<49Amp.	<54Amp.	<57Amp.	<106Amp.	<49Amp.	<65Amp.	<53Amp.	<62Amp.
Full Load O/P Current	8.5 ± 0.7 Amp.	9.5 ± 0.7Amp.	10.5 ± 0.7Amp.	17 ± 0.5Amp.	17 ± 0.5A	27 ± 0.5Amp.	34 ± 0.5Amp.	38 ± 0.5Amp.
Overload Retry	6 Times							
Output Frequency (Inverter Mode)	50.0 ± 1.0 Hz.							
Batt Low Voltage Alarm	10.5V ± 0.2V / Batt.							
Batt Low Voltage Cut	10.0V ± 0.2V / Batt.							
Output Sine wave (Inverter)	Should be Ok							

### MAINS MODE

Output Sine Wave (Mains) Through CRO	Should be Ok							
Mains Low Cut	100 ± 10V			115 ± 10V		125 ± 10V		
Recovery	110 ± 10V			125 ± 10V		135 ± 10V		
Mains High Cut	280 ± 10V							
Recovery	275 ± 10V							
Change Over time (Mains to Inverter)	<50 ms.							
Change Over time (Inverter to Mains)	<10ms.							
Battery Low Retry	4 Times							
Short Circuit, Retry	Ok, 1 Time							
Permanent Short Circuit Protection	Should be Ok							

### UPS MODE

Mains Low Cut	180 ± 5V							
Recovery	190 ± 5V							
Mains High Cut	260 ± 5V							
Recovery	255 ± 5V							
Change Over time (Mains to UPS)	<=10 ms.							
Change Over time (UPS to Mains)	<10ms.							

### MAINS MODE

Max. Charging Current	20 ± 2Amp.			25 ± 1Amp.		20 ± 2Amp.		
Boost Charging Voltage	14.2V / Batt.							

### WEIGHT AND DIMENSIONS

With Packaging LXWXH in mm	470x440x610	470x440x610	470x440x610	500x495x660	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	5
Institute	Fan Only	25	32	50	75	100	110
	Fan	15	20	35	55	70	75
Browsing Centre (Type 1)	Tube light	10	15	20	35	40	50
	A.C	—	—	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	12	20	25
	Tube light	4	6	10	12	20	25
	Computers	4	5	8	12	15	20
Corporate Bldg.	AC	—	—	1	1	2	2
	Fan	15	20	8	12	16	20
	Tube light	10	15	8	12	16	20



(House of Green Energy)

Lento Industries Private Limited, India

www.lentoindia.com