

Elson

DPS Sine Wave Static UPS & INVERTERS - Eco Star Series (HKVA)

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 than a specified point to avoid brownouts and burning of motors.



2.5 KVA

3 KVA

3.5 KVA

5 KVA

7.5 KVA

10 KVA

12 KVA



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

Why Lento Static Ups Is Better Than Other Inverters ?

The OFF Line UPS above 1.5KVA are highly unreliable and not available with any brand.

The ON Line UPS always wastes 10-15% electricity. i.e. power Loss. About 40% Loss due to poor power Factor is additional to the above.

For the applications where the fully regulated voltage and frequency is not required, the Static UPS is the best solution. It provides the reliability of an ON Line UPS and with negligible power loss when Input Mains AC is present.

Applications

Major power Back up source in corporate offices as well as Call Centers

Computer & peripherals /office Equipment like, Scanners, Printers, Fax Machine etc.

Emergency & Mobile Power Systems

A.C and all Compressor based Applications

Petrol/Diesel Dispensing (Filling) Machines

Tread Mills & other Health Equipment in Homes/Gyms

Water Pumps and similar Motor Based Applications

All types of clinical equipments

Also
Available in
SNMP & GPRS
(Simple Network
Management
Protocol)



Applications

- Power Back-up for House hold as well as the computer, Small shops, Small offices etc.
- Small water pumps and all motor based small applications
- TV Sets, Fans, Tube Lights, computers etc.

Why Lento UPS is better than other Home UPS / Inverter?

A.) Output Waveform Of Inverter With Load Of 15 Tubelights



PURE SINE WAVE LENTO UPS



DISTORTED SINE WAVE OTHER BRANDS

B) Output Waveform Of Inverter Withload Of 35 Cfls Or Energy Saving Lamps



PURE SINE WAVE LENTO UPS



NEARLY SQUARE WAVE OTHER BRANDS

Lento DSP Based Home UPS/Inverter provides Pure Sine Wave output, whereas output of Home UPS of other brands gets badly distorted especially on normal loads like Compact Fluorescent Lamp, Tube Lights, Motors, Coolers & Computers etc.. this type of Distorted Waveform is very Harmful for all your Sophisticated Electronic Appliances.

Hence, Lento DSP based Home UPS is the preferred choice. It delivers Pure power, with Reliable Performance and at a Reasonable Price.



DPS SINE WAVE STATIC UPS & INVERTERS - ECO STAR SERIES (HKVA)

Technical Specifications

Model Name	Eco-Star 3000	Eco-Star 3500	Eco-Star 4000	Eco-Star 6000	Eco-Star 6000	Eco-Star 8500	Eco-Star 12000	Eco-Star 15000
INVERTER MODEL	2.5/36V & 48V	3KVA/36V & 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.	<63 & 46Amp.	<63 & 54Amp.	<63Amp.	<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				125V±10V			
Recovery	100V±10V				125V±10V			
Mains High Cut	110V±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