

SINE WAVE INVERTER HOUSEHOLD



WE MAKE YOUR
LIFE EASY....



- 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
- More back-up being a Sine Wave UPS (ASIC Control)
- Three stage solar charging (TSSC) suitable for all types of battery charging..
- Deep Discharge Battery charging from A.C. Mains.
- User friendly, feather touch control and selection switches with LED indication on front panel.
- Protection such as Mains Fuse Trip, Overload, Short Circuit, Battery low, Over Temperature indication with buzzer as well as display on LCD available.
- Inbuilt Battery gravity builder mode(No need of external charger).
- Compatible with Lithium battery.
- Battery type charging selection (Tubular/Flat/SMF/GEL/LiFePo4)
- Grid charging enable /disable options which makes it fully compatible with solar.
- Selectable battery charging current (High /Low).
- Resettable AC circuit breaker which reduce service calls.
- Selectable mode for UPS/Inverter.
- Bypass switch in case of any fault
- Comprehensive LCD Display

APPLICATIONS

- ▶ Power Back-up for House hold, Small shops, Small offices etc.
- ▶ Small Water pumps and all motor based small applications
- ▶ TV Sets, Fans, Tube Lights, computers etc.

400VA | 700VA | 900VA | 1100VA | 1600VA | 2100VA | 2500VA

Toll Free No. 1800-313-0746

www.lentoindia.com

SINE WAVE INVERTER

HOUSEHOLD



Technical Specifications

Model Name	Units	Eco-Star 515/915	Eco-Star 1215	Eco-Star 1415	Eco-Star 1600	Eco-Star 2000	Eco-Star 2500	Eco-Star 3000
System rating	VA	400/700	900	1100	1450	1600	2100	2500
Operating DC voltage	Volts	12	12	12	24	24	24	24
Switching element in Inverter	MOSFET							
Type of Control	PWM							
Nominal Output voltage in inverter mode	Vac				220V ± 7V			
Output supply phases	Single							
Nominal Output Frequency of Inverter	Hz				50/60 ± 1 (Default is 50Hz) selectable 50/60Hz (Optional)			
Frequency (Min - Max during Grid by pass) UPS mode	Hz				47-53			
Frequency (Min - Max during Grid by pass) Inverter mode	Hz				40-60			
Output voltage regulation	%				180-220			
Output THD (v) at linear load	%				<5%			
Crest Factor					3:01			
Overload capacity 125%	Sec				6 (6 Retry)			
Overload capacity 150%	Sec				2 (6 Retry)			
Cooling Fan ON at temp	°C				60 (or 45% of rated Load)			
Cooling Fan Off at temp	°C				55 (or 40% of rated Load)			
Battery low voltage alarm per battery	Vdc				10.8/10.5 ± 0.2 (user Selectable)			
Battery low voltage cut per battery	Vdc				10.5/10.2 ± 0.2 (With 4 retry)			
Max Battery charging voltage by grid per battery	Vdc				14.4 ± 0.2			
					Settable for TUB-14.4V/28.8V,GEL-14.2V/28.4V,SMF-14.2V/28.4V,Flat-14.2V/28.4V,LiFePo4-14.0V/28.0V			
					Settable for TUB-13.8V/27.6V,GEL-13.8V/27.6V,SMF-13.8V/27.6V,Flat-13.6V/27.2V,LiFePo4-NA			
Max Battery charging current by grid in Hi/Lo option	Adc				16/12 ± 2A			
					Settable for Tub-12/16A,FLAT-10/14A, SMF-10/14A, Gel-10/16A, LiFePo4-12/16			
Battery High cut with Alarm per battery	Vdc				14.8±0.2			
Battery High cut Recovery per battery	Vdc				14.3±0.2			
Grid low cut voltage (IT load/Normal load)	Vac				180/100 ± 10			
Grid low cut voltage recovery (IT load/Normal load)	Vac				190/110 ± 10			
Grid high cut voltage (IT load/Normal load)	Vac				265/280 ± 10			
Grid high cut voltage recovery (IT load/Normal load)	Vac				255/270 ± 10			
Grid charging Enable/Disable					yes			
Selection of UPS Load/Normal Load					yes			
Output Voltage at No load at rated Battery voltage	Vac				220			
Noise @ 1 meter	dB				<50			
Protections	Overload, Battery Deep discharge, Battery Overcharge, Short circuit(1retry),Battery Hi,Over Temp,Fuse Trip, battery reverse							
LCD Display parameters	UPS ON/OFF, ,Mains volt, Battery Volt, Load percentage, UPS Mode ON/OFF, over load, short circuit, battery low, over temp, Fuse/MCB trip (Customized LCD/16X2 LCD)							
Indication LEDs	Tact switch Status							
Operating Temperature range	°C				0-50			
Storage Temperature range	°C				0 +65			
Max RH	%				95			
Front panel details (MCB, Display, Selection switch etc)	Display with tact switch							
Rear panel details (MCB, Terminals etc)	O/P socket, fuse/Circuit breaker, mains & batt. Cable and fan, Terminal							
Enclosure protection					20			
Changeover time from inverter to mains in UPS mode	ms				<10			
Changeover time from inverter to mains in Normal mode	ms				<10			
Changeover time from inverter to UPS mode	ms				<10			
Changeover time from mains to inverter in Normal mode	ms				<40			
Fuse in battery path					Internal Fuse			
Fuse in Solar Path					Yes			
Grid By pass Manually					Through switch			
Input Protection					Resettable Circuit breaker			
Dimension (LxWxH) in mm	365*345*185	365*345*185	365*345*185	370*345*240	370*345*340	405*350*330	405*350*330	
Net Weight	7/8.5	9.5	10	15	17	20	23	
Gross Weight	8/9.5	10.5	11	16	17.5	21	24	

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