

SINE WAVE INVERTER

HOUSEHOLD



WE MAKE YOUR
LIFE EASY....



Malgun Gothic

- 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

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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 \pm 7V						
Output supply phases		Single						
Nominal Output Frequency of Inverter	Hz	50/60 \pm 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	$^{\circ}$ C	60 (or 45% of rated Load)						
Cooling Fan Off at temp	$^{\circ}$ C	55 (or 40% of rated Load)						
Battery low voltage alarm per battery	Vdc	10.8/10.5 \pm 0.2 (user Selectable)						
Battery low voltage cut per battery	Vdc	10.5/10.2 \pm 0.2 (With 4 retry)						
	Vdc	14.4 \pm 0.2						
Max Battery charging voltage by grid per battery		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 \pm 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 \pm 0.2						
Battery High cut Recovery per battery	Vdc	14.3 \pm 0.2						
Grid low cut voltage (IT load/Normal load)	Vac	180/100 \pm 10						
Grid low cut voltage recovery (IT load/Normal load)	Vac	190/110 \pm 10						
Grid high cut voltage (IT load/Normal load)	Vac	265/280 \pm 10						
Grid high cut voltage recovery (IT load/Normal load)	Vac	255/270 \pm 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	$^{\circ}$ C	0-50						
Storage Temperature range	$^{\circ}$ 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 mains to inverter in 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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