

**RAYAX**™

The Rays Of Power

# OFF-GRID SOLAR INVERTER



Toll Free Number: 1800-5475-600  Info@rayaxenergy.com  www.rayaxenergy.com

## 1150/12V

### Features

- DSP Pure Sine Wave Technology Using Heavy Duty Mosfet
- Lcd Display ( 16 X 2)
- Built In Galvanic Isolation Transformer
- Automatic Bypass
- Powerful Charging During Low Voltage - 70V
- Battery Reverse Protection
- Electronic Breaker - Resettable Fuse
- Battery Reserve Up To 10.5V
- 6 Stage Charging Technology Helps In Increasing Battery Life.
- Compatible With All Types Of Batteries (TGEL/TUB/SMF/GEL/Li)
- Generator Compatible
- Boost Charging



Boost Charging



Resettable Circuit Breaker

- MODEL : Vi - 1150
- VA RATING : 825VA/12V
- BULB LOAD in WATT  $\pm 3\%$  : 660 WATT
- COMPATIBLE BATTERY : TGEL/TUB/SMF/GEL/Li
- CHARGING CURRENT : 15A - 20A

## 1230/12V

### Features

- DSP Pure Sine Wave Technology Using Heavy Duty Mosfet
- Lcd Display ( 16 X 2)
- Built In Galvanic Isolation Transformer
- Automatic Bypass
- Powerful Charging During Low Voltage - 70V
- Rapid Charging Up To 20 Amp
- Battery Reverse Protection
- Electronic Breaker - Resettable Fuse
- Battery Reserve Up To 10.5 V
- 6 Stage Charging Technology Helps In Increasing Battery Life.
- Compatible With All Types Of Batteries (TGEL/TUB/SMF/GEL/Li)
- Generator Compatible
- Boost Charging



Boost Charging



Resettable Circuit Breaker

- MODEL : Vi - 1230
- VA RATING : 1050VA/12V
- BULB LOAD in WATT  $\pm 3\%$  : 840 WATT
- COMPATIBLE BATTERY : TGEL/TUB/SMF/GEL/Li
- CHARGING CURRENT : 15A - 20A

## 1750/12V

### Features

- DSP Pure Sine Wave Technology Using Heavy Duty Mosfet
- Lcd Display ( 16 X 2)
- Built In Galvanic Isolation Transformer
- Automatic Bypass
- Powerful Charging During Low Voltage - 70V
- Rapid Charging Up To 20 Amp
- Battery Reverse Protection
- MCB Protection 24 X 7- Isolates Mains Input From Ups
- Battery Reserve Up To 10.5V
- 6 Stage Charging Technology Helps In Increasing Battery Life.
- Compatible With All Types Of Batteries (TGEL/TUB/SMF/GEL/Li)
- Generator Compatible
- Input / Output Terminal Block (N E L) Used



Boost Charging



Resettable Circuit Breaker

- MODEL : Vi - 1750
- VA RATING : 1400VA/12V
- BULB LOAD in WATT  $\pm 3\%$  : 1120 WATT
- COMPATIBLE BATTERY : TGEL/TUB/SMF/GEL/Li
- CHARGING CURRENT : 15A - 20A

**3500/24V**

### Features

- DSP Pure Sine Wave Technology Using Heavy Duty Mosfet
- Lcd Display ( 16 X 2)
- Built In Galvanic Isolation Transformer
- Automatic Bypass
- Powerful Charging During Low Voltage - 70V
- Rapid Charging Up To 20 Amp
- Battery Reverse Protection
- MCB Protection 24 X 7- Isolates Mains Input From Ups
- Battery Reserve Up To 21V
- 6 Stage Charging Technology Helps In Increasing Battery Life.
- Compatible With All Types Of Batteries (TGEL/TUB/SMF/GEL/Li)
- Generator Compatible
- Input / Output Terminal Block (N E L) Used



24x7 PROTECTION  
AC MCB

- MODEL : Vi - 3500
- VA RATING : 3150VA/24V
- BULB LOAD in WATT  $\pm 3\%$  : 2500 WATT
- COMPATIBLE BATTERY : TGEL/TUB/SMF/GEL/Li
- CHARGING CURRENT : 15A - 20A



## TECHNICAL SPECIFICATIONS

MODEL	1150	1230	1750	3500
DC BUS	12V			24V
NO LOAD CURRENT	< 1.2 A			
OUTPUT VOLTAGE @ NO LOAD	< 240VAC @12.0 VDC			< 240VAC @24.0 VDC
BATTERY LOW ALARM	10.7 +/- 0.2V			21.4 +/- 0.4V
BATTERY LOW SHUTDOWN	10.5 +/- 0.2V			21.0 +/- 0.4V
SHORT CIRCUIT PROTECTION	YES			
INVERTER OUTPUT FREQUENCY	50 HZ +/- 0.1 Hz			
<b>PARAMETERS</b>		<b>UPS MODE</b>		
MAINS INPUT VOLATGE RANGE	170V TO 265 V			
MAINS AC LOW CUT	170VAC +/- 10VAC			
MAINS AC LOW CUT RECOVERY	15A-20A			
MAINS AC HIGH CUT	265VAC +/- 10VAC			
MAINS AC HIGH CUT RECOVERY	255VAC +/- 10VAC			
MAXIMUM CHANGE OVER TIME	< 8 msec			
<b>PARAMETERS</b>		<b>WIDE UPS MODE</b>		
MAINS INPUT VOLATGE RANGE	90V TO 290 V			
MAINS AC LOW CUT	90VAC +/- 10VAC			
MAINS AC LOW CUT RECOVERY	110VAC +/- 10VAC			
MAINS AC HIGH CUT	290VAC +/- 10VAC			
MAINS AC HIGH CUT RECOVERY	280VAC +/- 10VAC			
MAXIMUM CHANGE OVER TIME	< 18 msec			
<b>PARAMETERS</b>		<b>CHARGING MODE</b>		
CHARGING CURRENT @ 220V AC	15A-20A			
BOOST VOLATGE (TUBULAR MODE)	14.4V +/- 0.2V		28.8V +/- 0.4V	
BOOST VOLATGE (LEAD ACID MODE)	14.0V +/- 0.2V		28.0V +/- 0.4V	
FLOAT VOLTAGE	13.6V +/- 0.2V		27.2V +/- 0.4V	
SHORT CIRCUIT	YES			
<b>PARAMETERS</b>				
BATTERY LOW CUT OFF	1 TIME			
OVERLOAD (AUTO RETRIES)	4 TIME			
SHORT CIRCUIT (AUTO RETRIES)	3 TIME			
OVER TEMPERATURE	3 TIME			
BATTERY OVER CHARGE	YES			
INPUT PROTECTION	YES ( RESSETABLE FUSE )		YES (MAINS MCB TRIP INCASE OF SHORT CIRCUIT IN MAINS MODE )	
<b>ENVIRONMENT</b>				
STORAGE TEMPERATURE	0 TO + 40 C			
OPERATING TEMPERATURE	0 TO + 40 C			
HUMIDITY	0-95% NON-CONDENSNG			
ACOUSTIC NOISE (at 1 mts )	< 45dB from 1 METER			
PROTECTION GLASS	IP-20			

## Li+UPS 1250/12V

### WALL MOUNTED UPS

#### Inbuilt Lithium-ion Battery

##### UPS Feature

- DSP Pure Sine Wave Technology Using Heavy Duty Mosfet
- LCD Display (16 X 2)
- Built In Galvanic Isolation Transformer
- Automatic Bypass
- Charging Current 25 Amp
- Generator Compatible

##### Battery Features

- RATED VOLTAGE (V) - 12.8
- RATED CAPACITY (AH) - 100Ah
- NO. OF CELLS IN SERIES & PARALLEL CONNECTION - 4S1P
- RATED ENERGY (Wh) - 1280
- CHARGE AND DISCHARGE CUT-OFF VOLTAGE (V) - 11.8~13.8V
- CHARGING MODE - CC-CV
- STANDARD DISCHARGING CURRENT (A) - 65
- ALLOWED DEPTH OF DISCHARGE - 80%



##### Backup Chart

Load ▶	200Watt.	400Watt.	600Watt.	800Watt.
Time ▶	7:00hrs.	3:15hrs.	2:10hrs.	1:35hrs.

- MODEL : Li+UPS 1250/12V
- RATING : 1000VA/12V
- BULB LOAD in WATT ±5% : 800 WATT
- CHARGING CURRENT : 25A
- BATTERY CHARGING TIME : 4:30 mins.



**Fast Charging**  
Battery Charging in 4:30 mins.



**Built in BMS**  
Automatic Low & High Battery Cut-out



**Long Cycle Life**  
5000 cycle life under normal operating conditions Cycle Life



**Maintenance Free**  
No Acid Spills or Fumes



**Protection 24x7**  
Over-load & Short Circuit



# RAYAX™

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## CORPORATE ADDRESS

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