



GLOBAL POWER SOLUTIONS  
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## SOLAR INTEGRATED SINEWAVE OFFGRID INVERTER

# TOTAL POWER SOLUTION

### Key Features

- DSP Based Fully Digital Design
- User friendly LCD + LED display
- High frequency PWM inverter
- Low distortion sine wave output
- User selectable Grid priority / solar priority modes
- User selectable wide input range / narrow input range modes
- High efficiency built-in solar charger
- Fully automatic inverter control for effective utilization of solar power
- Fully automatic intelligent battery charge management
- Shared battery charging during low light climate
- Soft start facility
- Synchronous load transfer

[www.zolaria.in](http://www.zolaria.in)

## Technical Specifications

<b>MODEL</b>	750 VA/1000 VA/1200 VA/1750 VA/2400VA		
<b>BATTERY</b>	12V DC / 24V DC		
<b>MODE</b>	U.P.S mode / INVERTER mode	User Selectable switch	
<b>PRIORITY</b>	Solar priority / Grid priority	User Selectable switch	
<b>SOLAR</b>	Solar cotroller	High efficiency MOSFET charger	
	Protections	Solar pannel reverse, Battery drain through solar panel	
	Solar input Voltage	Maximum 20V (12V Battery), Maximum 40V (24V battery)	
	Maximum solar panel current	30A	50A optional
<b>MAINS</b>	Input range (U.P.S Mode)	100V - 280V	Selectable as per requirements
	Input range (INVERTER Mode)	180V - 265V	Selectable as per requirements
	Input frequency range	47Hz - 58Hz	
	Output voltage	same as input voltage and frequency	
	Battry charging current	8A	3A - 12A selectable
<b>INVERTER</b>	Inverter	MOSFET Inverter with transformer isolation	
	Switching freequency	20KHz	
	Output voltage	220v+ 5%	200 V - 240 V selectable
	Output freequency	50.1Hz + 1%	Crystal controlled
	Distortion	5 % on linear load	
	Overload	Delayed Shut down	
	Overload warning	100 % load	
	Short circuit	Shut down	
	Auto restart	3 times for battery low, smart auto-restart for overload	
<b>PROTECTION</b>	Overload, Short circuit, Battery overcharge, Battery deep discharge, Over temperature		
<b>SWITCH</b>	ON/OFF, GIRD PRIORITY/ SOLAR PRIORITY, INVERTER MODE/U.P.S MODE		
<b>COOLING</b>	Forced air cooling with over temperature trip		
<b>ALARAM</b>	Buzzer during Overload warning, Battery low warning and Trip		
<b>LED</b>	Mains status, Solar charger Grid charger, Inverter status, Overload trip, Battery low trip		
<b>LCD</b>	Parameters	Battery volt, Grid volt, Gird frequency, Output volt, Load percentage, Charging current on grid, solar panel voltage, Charging current on solar, Total solar generation in KWh	
	General message	Mode selection, Priority selection, switch status, Load status	
	Warning message	Overload, battery low	
	Trip message	Overload, battery low	