



SUNURJA RENEWABLE ENERGY PVT. LTD.

The SunUrja was founded in 2007 to set a high standard for Renewable Energy and development of the best solar product worldwide. SunUrja staffed by IIT Delhi Faculty-Alumni it is a company committed to developing world-class products and services at Indian prices. It synergizes its immense expertise in Energy Systems, Power Electronics, Embedded Control and Monitoring, Product Development, Marketing, Sales and Services to ensure viable solutions with high reliability and meeting customer's performance requirement.

The SunUrja Team comprises highly motivated and experienced professionals with backgrounds in solar power, power electronics, environmental protection. We have the vision and capability to make solar energy a major source of renewable energy. We are focused on what we do best: designing, developing and operating turnkey solar plant. We are a one-stop solar com-

www.sunurja.com
 email:
 Phone: 9990524543

SOLAR
 DIGITAL
 INVERTER
 SERIES
 (2kVA/36,
 3kVA/48V)



SOLAR
 SINE WAVE
 INVERTER
 SERIES
 (3.5kVA/48V,
 IGBT)

SOLAR
 SINE WAVE
 INVERTER
 SERIES
 (5kVA/90V,
 IGBT)



Silent Features

SunUrja High Capacity Inverters

- MICRO Processor / DSP based PWM Technology using IGBT.
- CCCV Technology with Auto Trickle Mode.
- Smart Overload Sense and Short Circuit Protection
- Battery State Monitoring
- Easily Serviceable
- Solar Power Module Based Charger
- Best Suited for most High Capacity Sophisticated Appliances.
- Advanced Battery Management for Longer Battery Life & Quick Charging.
- LCD Panel Display for Status and Faults
- Auto Self Test on LCD Display
- Static By Pass Switch for fast Switch Over (optional) /Generator compatible
- Inbuilt TDR (in 5.5 KVA & above models) for compressor based application, e.g. Air Conditioners.
- Automatic mains to Solar changeover with the delay feature.
- Use 100% efficiency solar during day time.

SUNURJA RENEWABLE ENERGY PVT. LTD.
 TBIU, IIT-Delhi
 Hauz Khas
 New Delhi- 10016



Technical Specs for 2KVA to 10 KVA Dual Solar Charger Sine Wave Inverter

MODELS		2KVA	3KVA	5KV		6KVA	8 KVA		10KVA		
DC Bus		36V	48V	96V	20V	120V	144V	120V	180V	192V	
A.C. INPUT	Voltage	130V – 280V									
	Frequency	50HZ ± 3.0 Hz									
	Phase	1 Phase, 3 Wire									
INPUT SOLAR	Recommended SPV Wattage	Batt. AH x 3	Batt. AH x 4	Batt. AH x 8	Batt. AH x 10	Batt. AH x 10	Batt.AH x 12	Batt. AH x 10	Batt. AH x 15	Batt. AHX 16	
	@ SPV Voltage	@ 36V	@ 48V	@ 96V	@ 120V	@ 120V	@144V	@ 120V	@ 180V	@ 192V	
	Reverse Battery PV Protection	YES									
	Solar PV Charging efficiency	> 90%									
	Changeover time	Mains to SPV + batt. Or SPV batt. To main < 100m Sec. (< zero transfer time available on demand)									
BATTEY	Charging Voltage	43.2V ± 0.2	57.6V ± 0.2	115.2V ± 0.2	144V ± 0.2	144V ± 0.2	172.8V ± 0.2	216V ± 0.2	216V ± 0.2	230.4V ± 0.2	
	Trickle Voltage	40.95V ± 0.2	54.6V ± 0.2	109.2V ± 0.2	136.5V ± 0.2	136.5V ± 0.2	163.8V ± 0.2	204.75V ± 0.2	204.75V ± 0.2	218.4V ± 0.2	
	Low Batt. Cut off	30V ± 0.2	40V ± 0.2	80V ± 0.2	100V ± 0.2	100V ± 0.2	126V ± 0.2	157.5V ± 0.2	157.5V ± 0.2	168V ± 0.2	
	Battery over voltage & over-charging protection	YES									
	Battery Discharge Battery Charging Mode	1 st Priority : SPV poweronly – 10% – 15% of battery AH									
		2 nd Priority : Shared with input mains if SPV does not provide sufficient charging current – 10% of battery AH									
OUTPUT	Output At no load	230V * 2% / 50Hz									
	Output wave form	Pure Sine Wave									
	Total harmonic distortion	<3% A Resistive load									
	Surge current capacity	Upto 300% for one									
	Overload	Auto start 4 times at 100% -									
	Efficiency at Batt. Mode	> 85%									
PROTECTION	Overload, Low Battery, Short Circuit										
LED											
ENVIRONMENTAL PARAMETERS	Operating Temperature	0 – 45oC									
	Acoustic Noise at 1 Mtr.	< 45 DB									

Display (LCD Display 6*2) optional : Input voltage, Overload, Low Batt. Short Circuit, Mains MCB trip, Output frequency, Output load %

* The technical specification are subjected to change without prior notice for further improvement in products