

# TAPPING THE SOLAR ENERGY



**SOLAR  
INVERTER**

● Charging

● Fault

● Output On

220 Vac

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INVERTER**

● Charging

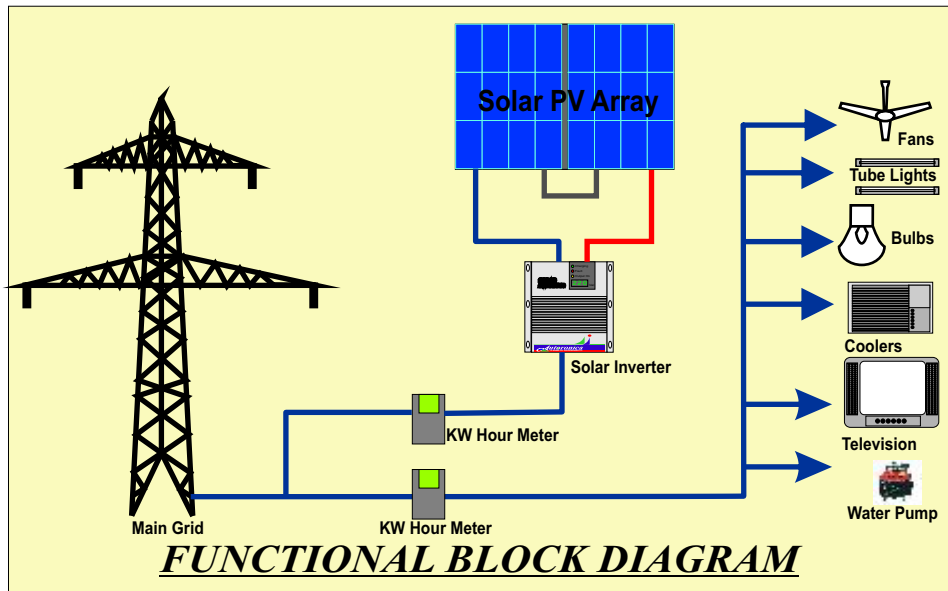
● Fault

● Output On

220 Vac

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***Salient Features***  
 COMPACT & ELEGANT DESIGN  
 PWM MOSFET BASED  
 ENVIRONMENT FRIENDLY  
 INTELLIGENT OVERLOAD &  
 SHORT CIRCUIT PROTECTION  
 FULLY AUTOMATIC  
 SERVICE MANUAL AVAILABLE  
 NOISELESS OPERATION

**ISO 9001**

**Technical Specifications**

MODELS	S-500	S-800	S-1000	S-1250	S-1500	S-2000
<b>SOLAR INPUT (DC)</b>						
DC WATTAGE POWER (MAX)	425 W	725 W	925 W	1125 W	1250 W	1750 W
INPUT PV POWER RANGE.	<----- 700 - 1200 Wp ----->			<---1200-2100 Wp----->		
MPP VOLTAGE RANGE.	100-380 VDC					
MAXIMUM VOLTAGE	450 VDC					
RATED CURRENT	<----- 5 AMPS ----->			<-----7.5 AMPS----->		
START UP POWER	2 WATTS					
DC CONNECTOR	PCB TERMINAL BLOCKS 4mm <sup>2</sup> .					
<b>GRID OUTPUT (AC)</b>						
OUTPUT POWER	340 W	580 W	740 W	900 W	1000 W	1400 W
OUTPUT VOLTAGE	230 V (184 V -276 V, Model dependant)					
NOMINAL CURRENT	<----- 3-4 AMPS (5 A Max) ----->			<---7 AMPS (8 A Max)--->		
FREQUENCY	50 Hz (49.7 - 51.3 Hz, Model Dependant)					
POWER FACTOR	0.8					
MAX EFFICIENCY	94%					
AC CONNECTOR	PCB TERMINAL BLOCKS 4mm <sup>2</sup> .					
<b>SAFETY FEATURES</b>						
ISOLATION	Galvanic separation between DC and AC by means of a HF transformer (Class-II)					
PROTECTIONS	10-300s (model dependant) Reclosure time, Power derating above 75° C internal temperature; switch off at 90° C					
DC SIDE PROTECTION	Earth fault detection, over-voltage detection, polarity protection (diodes) current limitation, transients (varistor & buffer capacitor), overload (Temperature controlled power derating)					
AC SIDE PROTECTION	Current limitation, over-&-under voltage detection, over-&-under frequency, Short Circuit (ceramic fuse), transients / surge (varistor)					
MANUFACTURING STANDARD	QMS ISO 9001:2000					
RELATIVE HUMIDITY	0-95% Non condensing					
SAFETY	Conforms to EN60950					
STRING LENGTH	5-9 modules (27 cells); 7-12 modules (54 cells) or 10-18/36 cells modules					
AMBIENT TEMPERATURE	-20 to 50° C					
DIMENSIONS (DxWxH)	13/6.5/8	15/7.75/8.5	15/7.75/8.5	15/7.75/8.5	16/8/9.25	16/8/9.2
WEIGHT (in Kgs. Approx)	3	4.5	4.8	6.5	7.5	7.5

*Due to continuous R & D, the above specifications are subject to change without prior notice.*

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**Dealer**

- OTHER PRODUCTS**
- UPS
  - Servo Stabilizers
  - Composite Power Supply
  - Battery Chargers
  - Industrial Inverters