

# SONALI SOLAR

“ENERGY INSPIRED BY NATURE”

SS 90 to 150 Series



## Quality Product

All Manufactured modules are tested 100% by EL (Electroluminescence) during the Production Process & Free from micro cracks.

Our high-performance modules are highly efficient, reliable and provide optimal output. The company manufactures solar modules in compliance with global standard including MNRE, IEC 61215, 61730-1, 61730-2, 61701, UL 1703, ISO 9001:2008 & ISO 14001:2004 & 18001:2007, MCS.

## High Efficiency

High Module efficiency is obtaining top performance even in diffused light conditions. We are leaders in providing our customers with maximum sunlight conversion.

## Application Possibilities

Residential and Commercial rooftops, Car ports, Solar Farming, Balconies, Awnings, Street lights, Fences, and Canopies.

## Our Team

We have a team of qualified experts and engineers making sure that modules produce maximum power. We pride ourselves in caring for each individual customer needs with detailed attention. Our end goal is to give a highly efficient product with exceptional customer service.

## Guarantee

Our product is durable and has 25 years performance warranty. Integrated manufacturing of cells & modules in production line guarantees optimum performance.

## RFID

RFID is an Radio Frequency Identification Technology - enables every individual modules to be uniquely identified. We can provide RFID tag as per customer's request.

## US OFFICE:

Sonali Energiees USA LLC.,  
409 Grand Avenue, Suite 3,  
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## US Manufacturing Facility:

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## Europe Office :

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## India Manufacturing Facility:

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## Electrical Specifications

Nominal Maximum Power (Pmax)	90W (12v)	100W (12v)	120W (12v)	125W (12v)	130W (12v)	140W (12v)	150W (12v)
Optimum Operating Voltage (Vmp)	17.64	17.64	17.64	17.64	17.64	17.64	17.64
Optimum Operating Current (Imp)	5.10	5.67	6.80	7.09	7.37	7.94	8.5
Open Circuit Voltage (Voc)	21.6	21.6	21.60	21.60	21.6	21.6	21.6
Short Circuit Current (Isc)	5.69	6.07	7.34	7.58	7.9	8.49	9.10

## Mechanical Specification

Module Dimensions (LXWXH)	1000X675X33 mm	1000X675X33 mm	1265X675X33 mm	1265X675X33 mm	1265X675X33 mm	1485X675X33 mm	1485X675X33 mm
Weight	9.25kg	9.25kg	11.70kg	11.70kg	11.70kg	13.5kg	13.5kg
Cell Arrangement	36 (9X4)	36 (9X4)	36 (9X4)	36 (9X4)	36 (9X4)	36 (9X4)	36 (9X4)
Front Cover (Tempered Glass)	3.2mm	3.2mm	3.2mm	3.2mm	3.2mm	3.2mm	3.2mm
Encapsulate	EVA	EVA	EVA	EVA	EVA	EVA	EVA
Back Cover	Composite sheet	Composite sheet	Composite sheet	Composite sheet	Composite sheet	Composite sheet	Composite sheet
Junction Box	3 terminal	3 terminal	3 terminal	3 terminal	3 terminal	3 terminal	3 terminal
Mounting Holes Pitch (Y)-mm	260	260	285	285	285	285	285
Mounting Holes Pitch (X)-mm	645	645	645	645	645	645	645

\* Maximum System Voltage : 1000 V (IEC), 600 V (UL) \* Measurement Power Tolerance on Power  $\pm 3\%$ , 0 /+ Tolerance on Max power Available upon request.

\* Under Standard Test Conditions (STC) of irradiance of 1000W/m<sup>2</sup>, spectrum AM 1.5 and cell temperature of 25 °C

## Other Characteristics

Junction Box : Weather proof Nylon 6  
 Type of Cell : Mono / Multi Crystalline Silicone  
 Temp. Coefficients : Coefficient of Current ( $\alpha$ ) - (0.060 %/°C)  
 Coefficient of Voltage ( $\beta$ ) - (-0.35 %/°C)  
 Coefficient of Power ( $\lambda$ ) - (-0.45%/°C)

\* Certification : Complied to IEC 61215, 61730-1, 61730-2 & 61701, ULI1703, MNRE Approved.

\* All Modules of 120Wp & Above are supplied with screw-less hollow section frames.

\* Due to constant product modifications, SONALI SOLAR reserves the right to amend.

\* Warranty : Up to 10 Years Limited Product Warranty

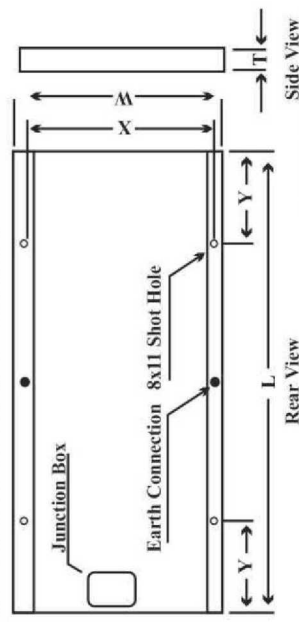
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## Tested Operating Conditions:

Temperature Cycling Range : (-40°C~+85°C)  
 humidity Freeze, Damp Heat : 85 % RH

## Mounting Details

All dimensions in mm and tolerances  $\pm 2$ mm



Rear View

Side View

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