

SONALI SOLAR

"Energy Inspired by Nature"

LEADING MANUFACTURER OF PV MODULES

25 to 90 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 14001:2008 & 18001:2007.

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 one 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.



An ISO 9001 : 2008 Certified
An ISO 18001 : 2007 Certified
An ISO 14001 : 2004 Certified

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Electrical Specifications

Nominal Maximum Power (Pmax)	25W	30W	37W	40W	50W	60W	70W	75W	80W	90W
Optimum Operating Voltage (Vmp)	17.64	17.64	17.64	18	17.64	18	17.64	17.64	18	17.64
Optimum Operating Current (Imp)	1.42	1.70	2.10	2.22	2.83	3.33	3.97	4.25	4.44	5.10
Open Circuit Voltage (Voc)	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6
Short Circuit Current (Isc)	1.53	1.82	2.36	2.41	3.04	3.55	4.26	4.59	4.74	5.69

Mechanical Specification

Module Dimensions (LXWXT)	640X355X18 mm	745X355X18 mm	505X675X28 mm	505X675X28 mm	700X675X28 mm	700X675X28 mm	905X675X28 mm	905X675X28 mm	905X675X28 mm	1120X675X28 mm
Weight	2.63kg/5.80lbs	3.16kg/6.96lbs	4.43kg/9.78lbs	4.43kg/9.78lbs	5.95kg/13.12lbs	5.95kg/13.12lbs	7.54kg/16.63lbs	7.54kg/16.63lbs	7.54kg/16.63lbs	9.22kg/20.32lbs
Cell Arrangement	36 (18X2)	36 (18X2)	36 (9X4)	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	3.2mm	3.2mm	3.2mm
Encapsulate	EVA	EVA	EVA	EVA	EVA	EVA	EVA	EVA	EVA	EVA
Back Cover	Composite sheet	Composite sheet	Composite sheet	Composite sheet	Composite sheet	Composite sheet	Composite sheet	Composite sheet	Composite sheet	Composite sheet
Junction Box	2 terminal	2 terminal	2 terminal	2 terminal	2 terminal	2 terminal	2 terminal	2 terminal	2 terminal	2 terminal
Mounting Holes Pitch (Y)-mm	340	385	255	255	340	340	450	450	450	600
Mounting Holes Pitch (X)-mm	331	335	643	643	643	643	643	643	643	643

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

*Under Standard Test Conditions (STC) of irradiance of 1000W/m2, 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 (α) - (0.060 %/°C)
 Coefficient of Voltage (β) - (-0.35 %/°C)
 Coefficient of Power (λ) - (-0.45%/°C)

Tested Operating Conditions:

Temperature Cycling Range : (-40°C~+85°C)
 humidity Freeze, Damp Heat : 85 % RH
 Static Load : 2400 Pascal

* Certification : Complied to IEC 61215, 61730-1, 61730-2 & 61701, UL1703, MNRE Approved.

* The Standard range of modules is supplied without diodes. However, diodes can be provided on specific customer request at extra cost.

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

Mounting Details

All dimensions in mm and tolerances ± 2 mm

