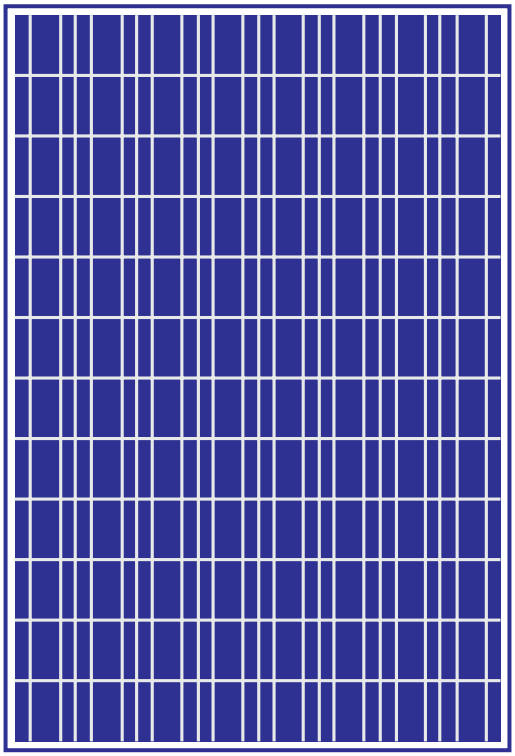
SONALI SOLAR

"Energy Inspired by Nature"

LEADING MANUFACTURER OF PV MODULES

3 to SS 20 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, 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.

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.

SONALI SOLAR

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

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3 TO 20 SERIES

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Electrical Specifications

Nominal Maximum Power (Pmax)	3W	5W	8W	10W	12W	15W	18W	20W
Optimum Operating Voltage (Vmp)	8.82	8.82	17.64	17.64	17.64	17.64	17.64	17.64
Optimum Operating Current (Imp)	0.34	0.57	0.46	0.57	0.68	0.85	1.02	1.13
Open Circuit Voltage (Voc)	10.8	10.8	21.6	21.6	21.6	21.6	21.6	21.6
Short Circuit Current (Isc)	0.37	0.61	0.48	0.61	0.73	0.92	1.09	1.20

Mechanical Specification

Module Dimensions (LXWXT)	200X200X18 mm	315X200X18 mm	240X355X18 mm	300X355X18 mm	340X355X18 mm	395X355X18 mm	470X355X18 mm	505X355X18 mm
Weight	0.59kg/1.29lbs	0.86kg/1.90lbs	1.12kg/2.47lbs	1.36kg/3.00lbs	1.52kg/3.36lbs	1.74kg/3.85lbs	2.05kg/4.51lbs	2.19kg/4.82lbs
Cell Arrangement	18 (9X2)	18 (9X2)	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
Encapsulate	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
Junction Box	2 terminal	2 terminal	2 terminal	2 terminal	2 terminal	2 terminal	2 terminal	2 terminal
Mounting Holes Pitch (Y)-mm	100	157	120	150	170	197	235	252.5
Mounting Holes Pitch (X)-mm	176	176	331	331	331	331	331	331

* Maximum System Voltage : 1000 V * Measurment Power Tolerance on Power ± 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
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)

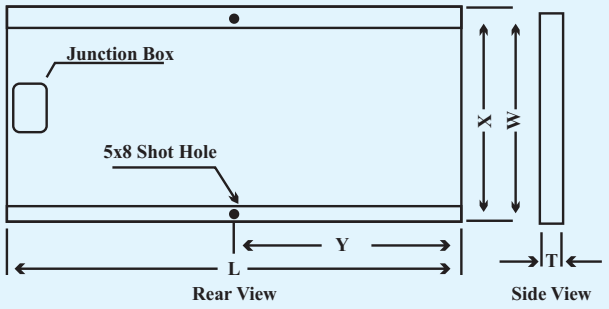
Tested Operating Conditions:

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, 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 ± 2mm



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