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Solar Panel Guide Specification Data Sheet

Sonali Energiees Pvt., Ltd

SS 3 to 30

SS 20-12v

Also available on the web at
EnergyPal.com/sonali-energees-pvt-ltd-solar-panels/ss-20-12v



“ENERGY INSPIRED BY NATURE”

SS 3 to 30 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.

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Electrical Specifications

	3W (6v)	5W (12v)	8W (12v)	10W (12v)	12W (12v)	15W (12v)	18W (12v)	20W (12v)	25W (12v)	30W (12v)
Nominal Maximum Power (Pmax)	8.82	17.64	17.64	17.64	17.64	17.64	17.64	17.64	17.64	17.64
Optimum Operating Voltage (Vmp)	0.34	0.57	0.28	0.46	0.68	0.85	1.02	1.13	1.42	1.70
Optimum Operating Current (Imp)	10.8	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6
Open Circuit Voltage (Voc)	0.37	0.61	0.31	0.48	0.73	0.92	1.09	1.20	1.53	1.82

Mechanical Specification

Module Dimensions (LXWXHT)	245X135X17 mm	365X135X17 mm	365X151X17 mm	365X151X17 mm	300X245X17 mm	365X245X17 mm	450X245X17 mm	450X245X17 mm	540X245X17 mm	365X450X17 mm	365X450X17 mm	450X450X17 mm	540X450X17 mm
Weight	0.40kg	0.7kg	0.7kg	1kg	1.25kg	1.4kg	1.74kg	2.05kg	2.19kg	2.63kg	3.25kg	3.25kg	3.25kg
Cell Arrangement	18 (9X2)	18 (9X2)	36 (18X2)	36 (9X4)	36 (9X4)	36 (9X4)	36 (9X4)	36 (9X4)	36 (9X4)	36 (9X4)	36 (18X2)	36 (18X2)	36 (18X2)
Front Cover (Tempered Glass)	3.2mm	3.2mm	3.2mm	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	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	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	2 terminal	2 terminal	2 terminal
Mounting Holes Pitch (Y)-mm	122.5	182.5	182.5	150	182.5	225	270	182.5	182.5	182.5	225	270	270
Mounting Holes Pitch (X)-mm	110	110	110	220	220	220	220	220	220	425	425	425	425

* 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/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)

* 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.

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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 ± 2 mm

