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EnergyPal

**Solar Panel Guide
Specification Data Sheet**

**Sonali Energiees Pvt., Ltd
SSM 270 to 300
SSM 275**

Also available on the web at
EnergyPal.com/sonali-energees-pvt-ltd-solar-panels/ssm-275



“ENERGY INSPIRED BY NATURE”

SSM 270 to 300 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,
Englewood, NJ 07631
Tel: 201-568-1424
Toll Free: 1.888.58.SOLAR
salesusa@sonalisolar.com

US Manufacturing Facility:

Sonali Energiees USA LLC.,
Michigan, USA
Tel: 201-568-1424
Toll Free: 1.888.58.SOLAR
info@sonalisolar.com

Europe Office :

Sonali Solar Europe Limited
Moore Stephens (South)
City Gates, 2-4 South Gate,
Chichester, W. Sussex,
PO 19 8 DJ
saleseurope@sonalisolar.com

India Manufacturing Facility:

Plot No. 180-199
Surat Special Economic Zone
Sachin-Dist. Surat 394230
Gujarat, India
Tel:+91 0261 2399910 / 2398007
Mobile : +91 997 896 8011
sales@sonalisolar.com
marketing@sonalisolar.com



Electrical Specifications

Nominal Maximum Power (Pmax)	270 W	275 W	280 W	285 W	290 W	295 W	300 W
Optimum Operating Voltage (Vmp)	31.41 V	31.62 V	31.82 V	31.91 V	32.21 V	32.42 V	32.55 V
Optimum Operating Current (Imp)	8.62 A	8.72 A	8.82 A	8.94 A	9.03 A	9.12 A	9.22 A
Open Circuit Voltage (Voc)	38.21 V	38.40 V	38.58 V	38.92 V	39.32 V	39.42 V	39.56 V
Short Circuit Current (Isc)	9.02 A	9.21 A	9.32 A	9.51 A	9.62 A	9.72 A	9.82 A
Module Efficiency (%)	16.50 %	16.70 %	17.00 %	17.30 %	17.60 %	17.90 %	18.20 %

* Maximum System Voltage : 1000 V (IEC), 600 V (UL)

* Measurement Power Tolerance on Power : 0 ~ + 5W

* Under Standard Test Conditions (STC) of irradiance of 1000W/m², spectrum AM 1.5 and cell temperature of 25 °C

* Nominal Operating Cell Temperature (NOCT) of irradiance of 800W/m², spectrum AM 1.5 and ambient temperature of 20 °C, 47 ± 2° C

Mechanical Specifications

Module Dimensions	(1954 X 981 X 40 mm)/(76.93 X 38.62 X 1.57 inch)
Weight	23 kgs / 50.70 lbs
Junction Box	Protection Class IP65 with Bypass Diodes
Cable & Connectors	Solar Cable 1200mm length with 4.0mm ² Double Insulated Cable & Type MC4 Connector
Cell Arrangement	72 (12 X 6)
Front Cover	3.2mm Tempered Glass (ARC)
Encapsulate	EVA
Back Cover	Composure Sheet
Frame	Silver Matt Finished Anodized Frame

Temperature Coefficients

Coefficient of Current (α)	(0.060%/°C)
Coefficient of Voltage (β)	(-0.331%/°C)
Coefficient of Power (λ)	(-0.439%/°C)

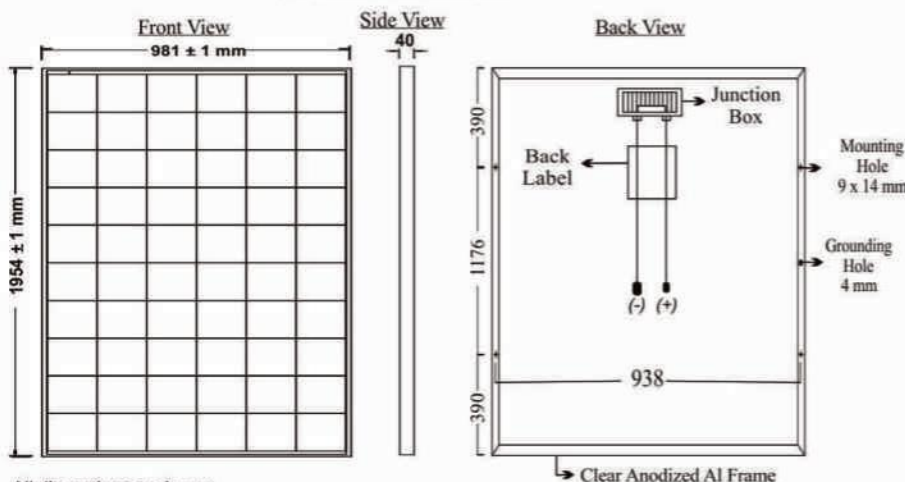
Product Guarantees

Product Warranty	10 Years
Performance Warranty	First 10 Years up to 90%, next 15 years up to 80%
Approvals & Certificates	IEC 61215, 61730-1, 61730-2 & 61701, UL 1703, MNRE Approved

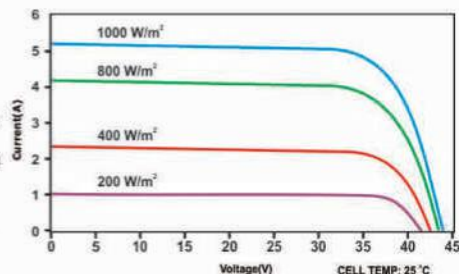
Tested Operating Conditions

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

Module Dimensions



Various Irradiance Levels



Linear Performance Warranty

