

"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 Energees 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 Energees 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 198 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)

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

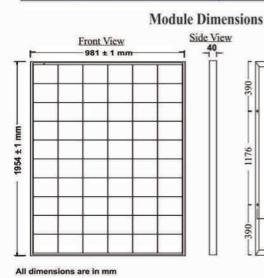
Coefficient of Current (a)	(0.060%/°C)
Coefficient of Voltage (β)	(-0.331%/°C)
Coefficient of Power (λ)	(-0.439%/°C)

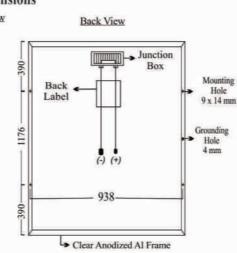
Product Guarantees

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

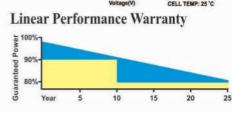
Tested Operating Conditions

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





Various Irradiance Levels 1000 W/m² 800 W/m² 400 W/m² 200 W/m² Voltage(V) CELL TEMP: 25 °C



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^{*} 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