

**For a Free Quote:**

**Web: [EnergyPal.com/solar](http://EnergyPal.com/solar)**

**Call: 1-800-990-3725**

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# **EnergyPal**

**Solar Panel Guide  
Specification Data Sheet**

**Sonali Energiees Pvt., Ltd  
SS 280-300 USA  
SS 295**

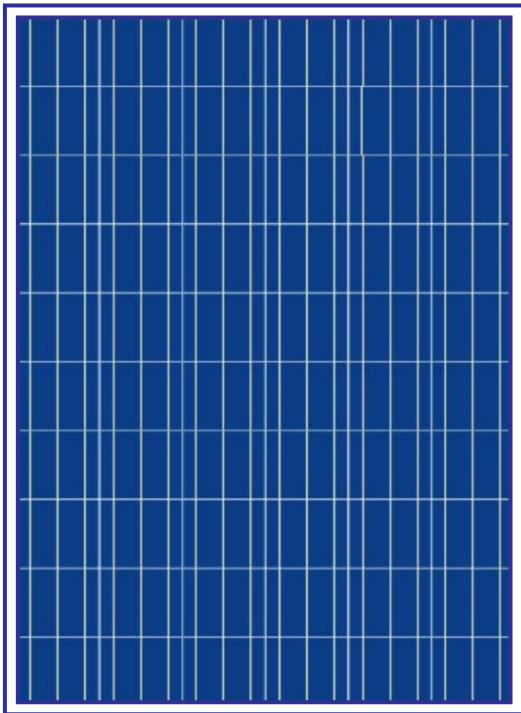
Also available on the web at  
[EnergyPal.com/sonali-energiees-pvt-ltd-solar-panels/ss-295](http://EnergyPal.com/sonali-energiees-pvt-ltd-solar-panels/ss-295)

# SONALI SOLAR

"Energy Inspired by Nature"

LEADING MANUFACTURER OF PV MODULES

280 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 14001:2008 & 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

#### 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:

Contractor Building Supply Inc.  
16880 Front St,  
Copenish, MI 49625  
United States.  
Ph. : +1 231 - 378 - 2936

#### Manufacturing Facility:

Plot No. 180-199  
Surat Special Economic Zone  
Sachin-Dist. Surat 394230  
Gujarat, India  
Tel: +91 0261 2399910  
info@sonalisolar.com

## Electrical Specifications

Nominal Maximum Power (Pmax)	280W	290W	295W	300W
Optimum Operating Voltage (Vmp)	36.58	36.72	37.08	37.58
Optimum Operating Current (Imp)	7.66	7.90	7.96	7.98
Open Circuit Voltage (Voc)	43.92	43.92	44.28	44.64
Short Circuit Current (Isc)	8.15	8.3	8.37	8.45

\* 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/m<sup>2</sup>, spectrum AM 1.5 and cell temperature of 25 °C

\* Normal Operating cell Temperature (NOCT) 47 $\pm$  2° C

## Mechanical Specification

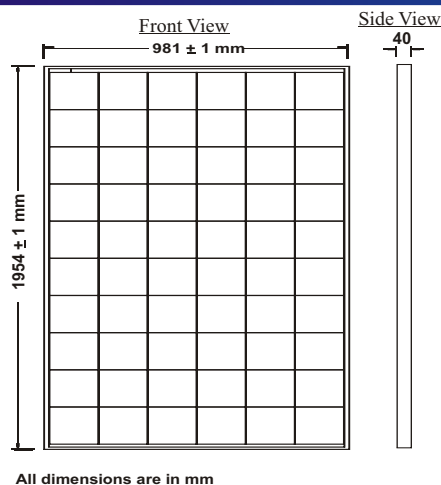
<b>Module Dimensions</b>	<b>(1954 X 981 X 40 mm)/(76.93 X 38.62 X 1.57 inch)</b>
Weight	21 kgs / 46.30lbs
Junction Box	Protection Class IP65 with Bypass diodes
Cable & Connectors	Solar Cable 900mm length with 4.0mm <sup>2</sup> double Insulated Cable, Multi Contact connector
Cell Arrangement	72 (6 X 12)
Front Cover	3.2mm Tempered Glass
Encapsulate	EVA
Back Cover	Composite Sheet
Frame	Silver Matt Finished Anodized frame, Anodizing Coating Thickness $\geq 16 \mu\text{m}$

Temperature Coefficients		Product Guarantees	
Coefficient of Current $\alpha$	(0.060 %/°C)	Product Warranty	10 Years
Coefficient of Voltage $\beta$	(-0.35 %/°C)	Performance Warranty	First 10 Years up to 90%, next 15 years up to 80%
Coefficient of Power $\lambda$	(-0.45%/°C)	Approvals & Certificates	Complied to IEC 61215, 61730-1, 61730-2 & 61701 UL 1703 Standards by ETL

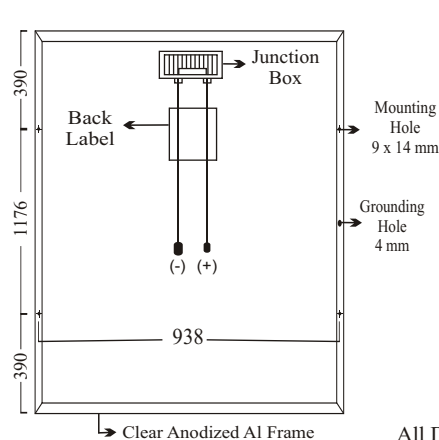
### Tested Operating Conditions:

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

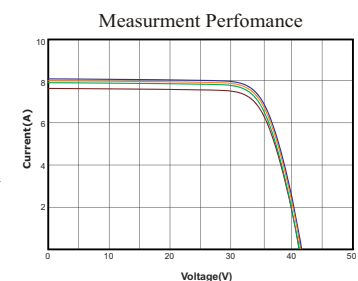
### Dimensions



### Back View



### IV Curve



SS 300 - 1000 w/m<sup>2</sup>, 25°c SS 295 - 1000 w/m<sup>2</sup>, 25°c  
SS 290 - 1000 w/m<sup>2</sup>, 25°c SS 280 - 1000 w/m<sup>2</sup>, 25°c

