

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 IEC 61215, 61730-1, 61730-2, 61701, UL 1703, UL 61730, ISO 9001:2008 & ISO 14001:2004 & 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 30 years performance warranty. Integrated manufacturing of cells & modules in production line guarantees optimum performance.

US OFFICE:

Sonali Energies USA LLC
 111 Charlotte Place Suite 101A
 Englewood Cliffs, NJ 07632
 Office Tel: 201-568-1424
 info@sonalisolar.com



Electric Performance Parameter

Model	SS-M-430	SS-M-435	SS-M-440	SS-M-445	SS-M-450
Nominal Maximum Power (Pmax/W)	430	435	440	445	450
Optimum Operating Voltage (Vmp/V)	33.7	33.91	34.13	34.34	34.56
Optimum Operating Current (Imp/A)	12.8	12.88	12.9	12.97	13.02
Open Circuit Voltage (Voc/V)	38.93	39.2	39.42	39.64	39.91
Short Circuit Current (Isc/A)	13.49	13.45	13.57	13.63	13.69
Module Efficiency STC (%)	21.99%	22.25%	22.51%	22.76%	23.02%

* Measurement Power Tolerance on Power 0 / +%
 * Under Standard Test Conditions (STC) of irradiance of 1000W/m²
 * Maximum System Voltage: 1500v IEC/UL
 * Normal Operating cell Temperature (NOCT) of irradiance of 800W/m², 45± 2° C
 * Spectrum AM 1.5 and cell temperature of 25 °C
 * Max Static Load Front Side upto 5400pa and Back side upto 2400pa

Mechanical Parameter

Module Dimensions	1724 X 1134 X 35 mm / 67.87 X 44.65 X 1.37 in
Weight	22 kgs / 48.5lbs
Cell Size (Monocrystalline)	182.2x91 mm / 7.17x3.58 in
No Of Cell	108 (6 X 18)
Junction Box	IP68, 3 Bypass diodes
Solar Cable Length (4mm ²)	1200mm (47.24inch)
Connectors	MC4 compatible
Glass (Tempered & Low Iron)	3.2mm (0.125in) ARC
Encapsulate	EVA
Back Cover	Black Backsheet
Frame (Black)	Anodized Aluminum Alloy
Max.Fuse Rating	25A

Temperature Coefficient

Coefficient of Current	+0.048% /°C
Coefficient of Voltage	-0.29% /°C
Coefficient of Power	-0.35% /°C

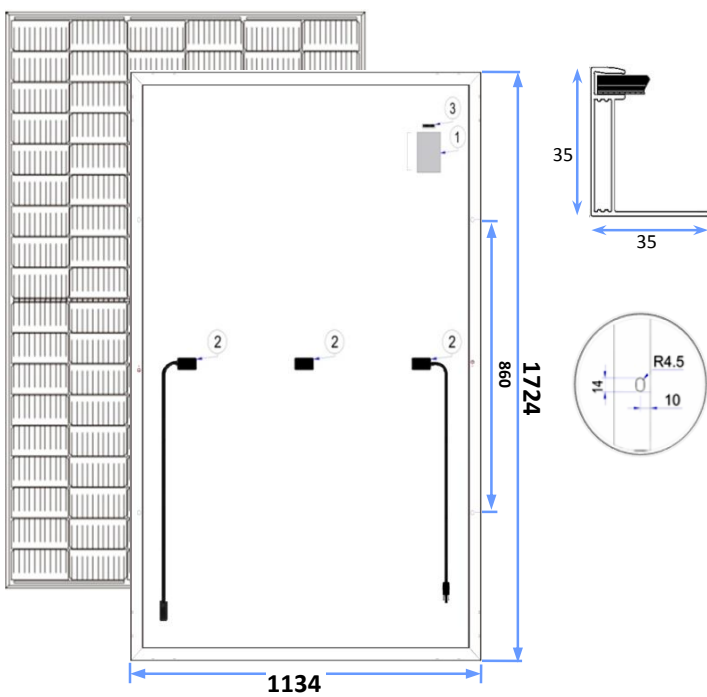
Tested Operating Conditions

Temperature Cycling Range	-40°C to 85°C
Humidity Freeze, Damp Heat	85% RH

Product Warranty

Product Warranty	25 Years
Linear Performance Warranty	First 10 Years up to 90%, next 20 years up to 80%

Module Drawing



IV Curve

