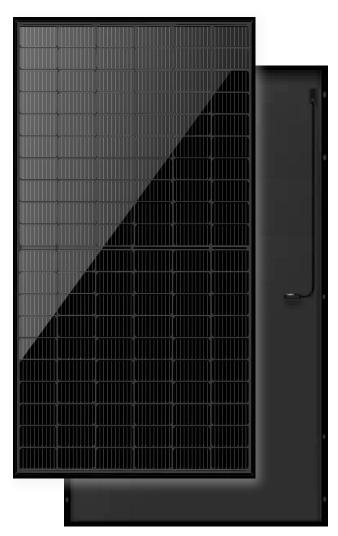


SS-M-440 to 460 Series



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 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 25 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









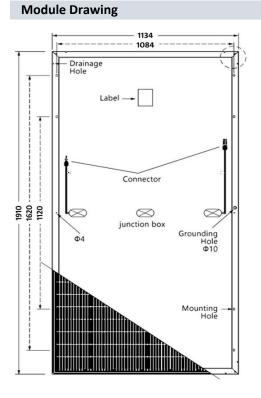


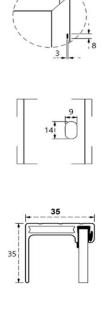




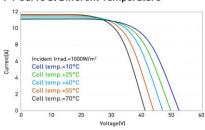


Electric Performance Parameter						
Model	SS-M-440	SS-M-445	SS-M-450	SS-M-455	SS-M-460	
Nominal Maximum Power (Pmax	(/W) 440	445	450	455	460	
Optimum Operating Voltage (Vm	np/V) 34.5	34.8	35.0	35.2	35.5	
Optimum Operating Current (Imp	p/A) 12.74	12.8	12.86	12.91	12.97	
Open Circuit Voltage (Voc/V)	41.2	41.4	41.6	41.8	42.0	
Short Circuit Current (Isc/A)	13.54	13.6	13.66	13.72	13.78	
Module Efficiency	20.41%	20.64%	20.87%	21.10%	21.33%	
* Measurement Power Tolerance on Powe * Under Standard Test Conditions (STC) of * Maximum System Voltage: 1500v IEC/UL	* Normal Operating cell Temperature (NOCT) of irradiance of 800W/m2, 43± 2° C * Spectrum AM 1.5 and cell temperature of 25 °C * Wind Load 3600 pa & Mechanical Load 5400 pa					
Mechanical Parameter			Temperature Coefficient			
Module Dimensions	1910 X 1134 X 35 mm / 75.2 X 44.65 X 1.38 inch		Coefficient of Current			+0.05% /°C
Weight	24 kgs / 52.91 lbs		Coefficier	Coefficient of Voltage		-0.29% /°C
Cell Size (Monocrystalline)	182x91 mm / 7.16x3.58 in		Coefficier	Coefficient of Power		-0.37% /°C
No Of Cell	120 (6 X 20)	Tested Operating Conditions				
Junction Box	IP68, 3 Bypass diod	Temperature Cycling Range		Range	-40°C to 85°C	
Solar Cable Length (4mm²)	N 400mm (15.75 in P 300mm (11.81ind	Humidity Freeze, Damp Heat			85% RH	
Connectors	MC4 compatible					
Glass (Tempered & Low Iron)	3.2mm (0.125in) ARC		Product Warranty			
Encapsulate	EVA	Product Warranty			12 Years	
Back Cover (Black Color)	Composite Sheet	Linear Performance Warranty		Jarranty	First 10 Years up to 90%,	
Frame (Black Color)	Anodized Aluminur	Anodized Aluminum Alloy		Linear remorniance wandilly		next 15 years up to 80%
Module Drawing			IV Curve			

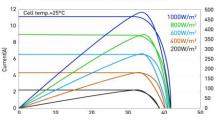




I-V Curve at Different Temperature







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