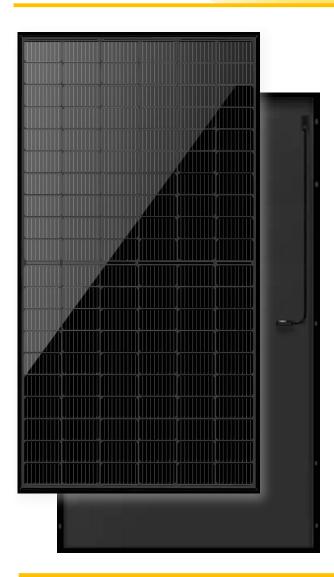


SS- followed by 440, 445 or 450 ; followed by W-M60H M10



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, CSAUS, 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





SS- followed by 440, 445 or 450 ; followed by W-M60H M10

 * Spectrum AM 1.5 and cell temperature of 25 $^{\circ}\mathrm{C}$

Electric Performance Parameter			
Model	SS-440W-M60 M10	SS-445W-M60 M10	SS-450W-M60 M10
Nominal Maximum Power (Pmax/W)	440	445	450
Optimum Operating Voltage (Vmp/V)	33.7	33.8	33.9
Optimum Operating Current (Imp/A)	13.05	13.16	13.27
Open Circuit Voltage (Voc/V)	41.0	41.1	41.2
Short Circuit Current (Isc/A)	13.73	13.79	13.85
Module Efficiency	20.41%	20.64%	20.87%

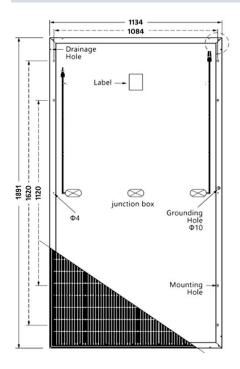
* Measurement Power Tolerance on Power 0 / +%

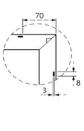
* Under Standard Test Conditions (STC) of irradiance of 1000W/m2

* Maximum System Voltage: 1500v IEC/UL

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Waxinum System Voltage. 1500V IEC/OL		Wind Load Soupa, 115 FSF, 210 WiFTT ated Load & Mechanical Load S400 pa		
Mechanical Parameter		Temperature Coefficient		
Module Dimensions	1891 X 1134 X 35 mm / 74.45 X 44.65 X 1.38 inch	Coefficient of Current	+0.05% /°C	
Weight	24 kgs / 52.91 lbs	Coefficient of Voltage	-0.29% /°C	
Cell Size (Monocrystalline)	182x91 mm / 7.16x3.58 in	Coefficient of Power	-0.37% /°C	
No Of Cell	120 (6 X 20)	Tested Operating Conditions		
Junction Box	IP68, 3 Bypass diodes	Temperature Cycling Range	-40°C to 85°C	
Solar Cable Length (4mm ²)	1200mm (47.24inch)	Humidity Freeze, Damp Heat	85% RH	
Connectors	MC4 compatible			
Glass (Tempered & Low Iron)	3.2mm (0.125in) ARC	Product Warranty		
Encapsulate	EVA	Product Warranty	15 Years	
Back Cover (Black Color)	Composite Sheet	Linear Performance Warranty	First 10 Years up to 90%,	
Frame (Black Color)	Anodized Aluminum Alloy		next 20 years up to 80%	
Module Drawing		IV Curve		





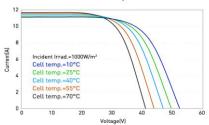




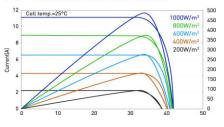
I-V Curve at Different Temperature

* Normal Operating cell Temperature (NOCT) of irradiance of 800W/m2, 43± 2° C

* Wind Load 3600pa , 113 PSF, 210 MPH rated Load & Mechanical Load 5400 pa



I-V/P-V Curve at Different Irradiation



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