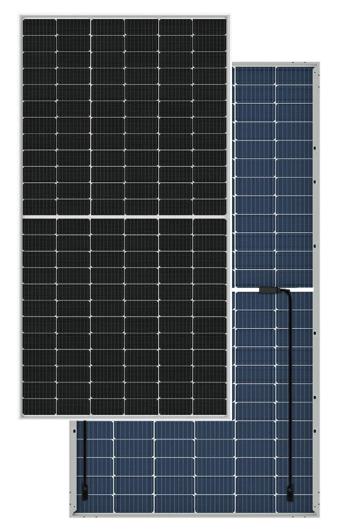


SS-M- 550 Series



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:

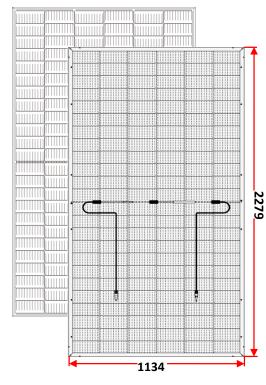
Sonali Energies USA LLC 111 Charlotte Place Suite 101A Englewood Cliffs, NJ 07632 Office Tel: 201-568-1424 info@sonalisolar.com



SS-M- 550 Series

Nominal Maximum Power (Pmax/W) 550 Optimum Operating Voltage (Vmp/V) 42.5 Optimum Operating Current (Imp/A) 12.95 Open Circuit Voltage (Voc/V) 50.4 Short Circuit Current (Isc/A) 13.8 * Maximum System Voltage: 1500 VEC/U * Maximum System Voltage: 1500 VEC/U Maximum System Voltage: 1500 VEC/U Mechanical Parameter Module Dimensions 2279 X 1134 X 35 mm / 89.72 X 44.65 X 1.38 inch Weight 29 kgs / 63.93 lbs Coefficient of Current 40.02% /°C 89.72 X 44.65 X 1.38 inch Weight 29 kgs / 63.93 lbs Coefficient of Voltage 0.26% /°C Cell Size (Monocrystalline) 182X91 mm / 7.16X3.58 in No Of Cell 144 (6 X 24) Tested Operating Conditions No Of Cell 144 (6 X 24) Tested Operating Conditions Junction Box IP68, 3 Bypass diodes Temperature Cycling Range -40°C to 85°C Solar Cable Length (4mm²) 1200m (47.24inch) Humidity Freeze, Damp Heat 85% RH Connectors MC4 compatible Glass (Tempered & Low Iron) Back Cover Transparent Backsheet Yransparent Backsheet First 10 Years up to 90 Linear Performance Warranty First 10 Years	Electric Performance Para	meter			
Optimum Operating Voltage (Vmp/V) 42.5 Optimum Operating Current (Imp/A) 12.95 Open Circuit Voltage (Voc/V) 50.4 Short Circuit Current (Isc/A) 13.8 * Measurement Power Tolerance on Power 0 / *% * Normal Operating cell Temperature (NOCT) of irradiance of 800W/m2, 432.21 * Maximum System Voltage: 1500v IE/C/V * Normal Operating cell Temperature 0.25 °C * Maximum System Voltage: 1500v IE/C/V * Normal Operating cell Temperature 0.25 °C * Maximum System Voltage: 1500v IE/C/V * Normal Operating cell Temperature 0.25 °C * Maximum System Voltage: 1500v IE/C/V * Normal Operating cell Temperature 0.25 °C * Maximum System Voltage: 1500v IE/C/V * Normal Operating cell Temperature 0.25 °C * Maximum System Voltage: 1500v IE/C/V * Normal Operating Cell Temperature 0.25 °C * Mechanical Parameter * Normal Operating Cell Temperature 0.25 °C Module Dimensions 2279 X 1134 X 35 mm / 89.72 X 44.65 X 1.38 inch Coefficient of Current + 0.02% /°C Veight 29 kgs / 63.93 lbs Coefficient of Voltage - 0.26% /°C Gell Size (Monocrystalline) 182x91 mm / 7.16x3.58 in Coefficient of Power - 0.38% /°C No Of Cell 144 (6 x 24) Temperature Cycling Range -40°C to 85	Model	SS-M-550			
Optimum Operating Current (Imp / A) 12.95 Open Circuit Voltage (Voc/V) 50.4 Short Circuit Current (Isc/A) 13.8 * Measurement Power Tolerance on Power 0 / +% * Normal Operating cell Temperature (NOCT) of irradiance of 800W/m2, 43.2 at 25 * Spectrum AM 1.5 and cell temperature of 25 ° C * Masurement Power Tolerance on Power 0 / +% * Normal Operating cell Temperature (NOCT) of irradiance of 800W/m2, 43.2 at 25 * Spectrum AM 1.5 and cell temperature of 25 ° C * Maximum System Voltage: 1500v IEC/UL * Normal Operating Cell Temperature of 25 ° C * Maximum System Voltage: 1500v IEC/UL * Normal Operating Cell Temperature of 25 ° C * Machanical Parameter * Mechanical Parameter Module Dimensions 2279 X 1134 X 35 mm / 89.72 X 4.65 X 1.38 inch 89.72 X 4.65 X 1.38 inch 89.72 X 4.65 X 1.38 inch Coefficient of Current +0.02% /*C Veight 29 kgs / 63.93 lbs Coefficient of Voltage -0.26% /*C 0.38% /*C Cell Size (Monocrystalline) 182x91 mm / 7.16x3.58 in Coefficient of Power -0.38% /*C No Of Cell 144 (6 X 24) Temperature Cycling Range -40°C to 85°C Solar Cable Length (4mm²) 1200mm (47.24inch) Humidity Freeze, Damp Heat 85% RH Connectors MC4 compatible Froduct Warranty 1	Nominal Maximum Power (Pmax	<td colspan="3">50</td>	50		
Open Circuit Voltage (Voc/V) 50.4 Short Circuit Current (Isc/A) 13.8 * Measurement Power Tolerance on Power 0 + *k * Normal Operating cell Temperature (NOCT) of irradiance of 800W/m2, 43.2 at 2000 parts 2000	Optimum Operating Voltage (Vm	1p/V) 42.5			
Short Circuit Current (Isc/A)13.8* Measurement Power Tolerance on Power 0/+%* Normal Operating cell Temperature (NOCT) of irradiance of 800W/m2, 43± 2* Under Standard Test Conditions (STC) of irradiance of 1000W/m2* Normal Operating cell Temperature of 25 °C* Maximum System Voltage: 1500v IEC/UL* Wind Load 3600pa , 113 PSF, 210 MPH rated Load & Mechanical Load 5400 pMechanical ParameterTemperature CoefficientModule Dimensions2279 X 1134 X 35 mm / 89.72 X 44.65 X 1.38 inchWeight29 kgs / 63.93 lbsCoefficient of Current29 kgs / 63.93 lbsCoefficient of Voltage0.05 Cell144 (6 X 24)Junction BoxIP68, 3 Bypass diodesSolar Cable Length (4mm²)1200mm (47.24inch)MC4 compatibleProduct WarrantyGlass (Tempered & Low Iron)3.2mm (0.125in) ARCProduct Warranty12 YearsBack CoverTransparent BacksheetLinear Performance WarrantyFirst 10 Years up to 90	Optimum Operating Current (Im	p/A) 12.95			
* Measurement Power Tolerance on Power 0 / +% * Normal Operating cell Temperature (NOCT) of irradiance of 800W/m2, 43± 2' * Measurement Power Tolerance on Power 0 / +% * Normal Operating cell Temperature (NOCT) of irradiance of 800W/m2, 43± 2' * Under Standard Test Conditions (STC) of irradiance of 1000W/m2 * Spectrum AM 1.5 and cell temperature of 25 °C * Maximum System Voltage: 1500v IEC/UL * Wind Load 3600pa , 113 PSF, 210 MPH rated Load & Mechanical Load 5400 p Mechanical Parameter Temperature Coefficient Module Dimensions 2279 X 1134 X 35 mm / 89.72 X 44.65 X 1.38 inch Weight 29 kgs / 63.93 lbs Coefficient of Current +0.02% /°C Cell Size (Monocrystalline) 182x91 mm / 7.16x3.58 in No Of Cell 144 (6 X 24) Junction Box IP68, 3 Bypass diodes Temperature Cycling Range -40°C to 85°C Solar Cable Length (4mm²) 1200mm (47.24inch) MC4 compatible Humidity Freeze, Damp Heat 85% RH Glass (Tempered & Low Iron) 3.2mm (0.125in) ARC Product Warranty Encapsulate EVA Product Warranty 12 Years Back Cover Transparent Backsheet First 10 Years up to 90	Open Circuit Voltage (Voc/V)	50.4			
* Under Standard Test Conditions (STC) of irradiance of 1000W/m2 * Spectrum AM 1.5 and cell temperature of 25 °C * Maximum System Voltage: 1500v IEC/UL * Wind Load 3600pa, 113 PSF, 210 MPH rated Load & Mechanical Load 5400 p Mechanical Parameter Temperature Coefficient Module Dimensions 2279 X 1134 X 35 mm / 89.72 X 44.65 X 1.38 inch Coefficient of Current +0.02% /°C Weight 29 kgs / 63.93 lbs Coefficient of Voltage -0.26% /°C Cell Size (Monocrystalline) 182x91 mm / 7.16x3.58 in Coefficient of Power -0.38% /°C No Of Cell 144 (6 X 24) Tested Operating Conditions Tested Operating Conditions Junction Box IP68, 3 Bypass diodes Temperature Cycling Range -40°C to 85°C Solar Cable Length (4mm²) 1200mm (47.24inch) Humidity Freeze, Damp Heat 85% RH Glass (Tempered & Low Iron) 3.2mm (0.125in) ARC Product Warranty 12 Years Back Cover Transparent Backsheet First 10 Years up to 90 90	Short Circuit Current (Isc/A)	13.8			
Module Dimensions2279 X 1134 X 35 mm / 89.72 X 44.65 X 1.38 inch 29 kgs / 63.93 lbsCoefficient of Current+0.02% /°CWeight29 kgs / 63.93 lbsCoefficient of Voltage-0.26% /°CCell Size (Monocrystalline)182x91 mm / 7.16x3.58 in 144 (6 X 24)Coefficient of Power-0.38% /°CNo Of Cell144 (6 X 24) Tested Operating Conditions Junction BoxIP68, 3 Bypass diodesTemperature Cycling Range-40°C to 85°CSolar Cable Length (4mm²)1200mm (47.24inch)Humidity Freeze, Damp Heat85% RHConnectorsMC4 compatible Product Warranty I2 YearsBack CoverTransparent BacksheetProduct WarrantyFirst 10 Years up to 90	* Under Standard Test Conditions (STC) of irradiance of 1000W/m2		* Spectrum AM 1.5 and cell tempera	 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 3600pa , 113 PSF, 210 MPH rated Load & Mechanical Load 5400 pa 	
Module Dimensions89.72 X 44.65 X 1.38 inchCoefficient of Current40.02% / CWeight29 kgs / 63.93 lbsCoefficient of Voltage-0.26% / °CCell Size (Monocrystalline)182x91 mm / 7.16x3.58 inCoefficient of Power-0.38% / °CNo Of Cell144 (6 X 24) Tested Operating Conditions Junction BoxIP68, 3 Bypass diodesTemperature Cycling Range-40°C to 85°CSolar Cable Length (4mm²)1200mm (47.24inch)Humidity Freeze, Damp Heat85% RHGlass (Tempered & Low Iron)3.2mm (0.125in) ARC Product Warranty I2 YearsEncapsulateEVAProduct Warranty12 YearsBack CoverTransparent BacksheetLinear Performance WarrantyFirst 10 Years up to 90	Mechanical Parameter		Temperature Coeffic	ient	
Cell Size (Monocrystalline)182x91 mm / 7.16x3.58 inCoefficient of Power-0.38% /°CNo Of Cell144 (6 X 24) Tested Operating Conditions Junction BoxIP68, 3 Bypass diodesTemperature Cycling Range-40°C to 85°CSolar Cable Length (4mm²)1200mm (47.24inch)Humidity Freeze, Damp Heat85% RHConnectorsMC4 compatibleGlass (Tempered & Low Iron)3.2mm (0.125in) ARC Product Warranty 12 YearsEncapsulateEVAProduct Warranty12 YearsBack CoverTransparent BacksheetLinear Performance WarrantyFirst 10 Years up to 90	Module Dimensions		Coefficient of Current	+0.02% /°C	
No Of Cell144 (6 X 24)Tested Operating ConditionsJunction BoxIP68, 3 Bypass diodesTemperature Cycling Range-40°C to 85°CSolar Cable Length (4mm²)1200mm (47.24inch)Humidity Freeze, Damp Heat85% RHConnectorsMC4 compatibleGlass (Tempered & Low Iron)3.2mm (0.125in) ARCProduct Warranty12 YearsEncapsulateEVAProduct Warranty12 YearsBack CoverTransparent BacksheetLinear Performance WarrantyFirst 10 Years up to 90	Weight	29 kgs / 63.93 lbs	Coefficient of Voltage	-0.26% /°C	
Junction BoxIP68, 3 Bypass diodesTemperature Cycling Range-40°C to 85°CSolar Cable Length (4mm²)1200mm (47.24inch)Humidity Freeze, Damp Heat85% RHConnectorsMC4 compatibleGlass (Tempered & Low Iron)3.2mm (0.125in) ARCProduct WarrantyEncapsulateEVAProduct Warranty12 YearsBack CoverTransparent BacksheetLinear Performance WarrantyFirst 10 Years up to 90	Cell Size (Monocrystalline)	182x91 mm / 7.16x3.5	3 in Coefficient of Power	-0.38% /°C	
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ConnectorsMC4 compatibleGlass (Tempered & Low Iron)3.2mm (0.125in) ARCProduct WarrantyEncapsulateEVAProduct Warranty12 YearsBack CoverTransparent BacksheetLinear Performance WarrantyFirst 10 Years up to 90	Junction Box	IP68, 3 Bypass diodes	Temperature Cycling Rang	ge −40°C to 85°C	
Glass (Tempered & Low Iron) 3.2mm (0.125in) ARC Product Warranty Encapsulate EVA Product Warranty 12 Years Back Cover Transparent Backsheet Linear Performance Warranty First 10 Years up to 90	Solar Cable Length (4mm ²)	1200mm (47.24inch)	Humidity Freeze, Damp He	eat 85% RH	
Encapsulate EVA Product Warranty 12 Years Back Cover Transparent Backsheet Linear Performance Warranty First 10 Years up to 90	Connectors	MC4 compatible			
Back Cover Transparent Backsheet First 10 Years up to 90	Glass (Tempered & Low Iron)	3.2mm (0.125in) ARC	Product Warranty		
Linear Performance Warranty	Encapsulate	EVA	Product Warranty	12 Years	
	Back Cover	Transparent Backshee	Linear Performance Warra	First 10 Years up to 909	
	Frame (Silver)	Anodized Aluminum A	loy	next 15 years up to 809	
Module Drawing IV Curve	Module Drawing		IV Curve		

Module Drawing

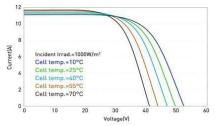




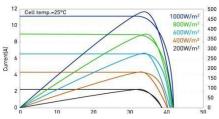




I-V Curve at Different Temperature



I-V/P-V Curve at Different Irradiation



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