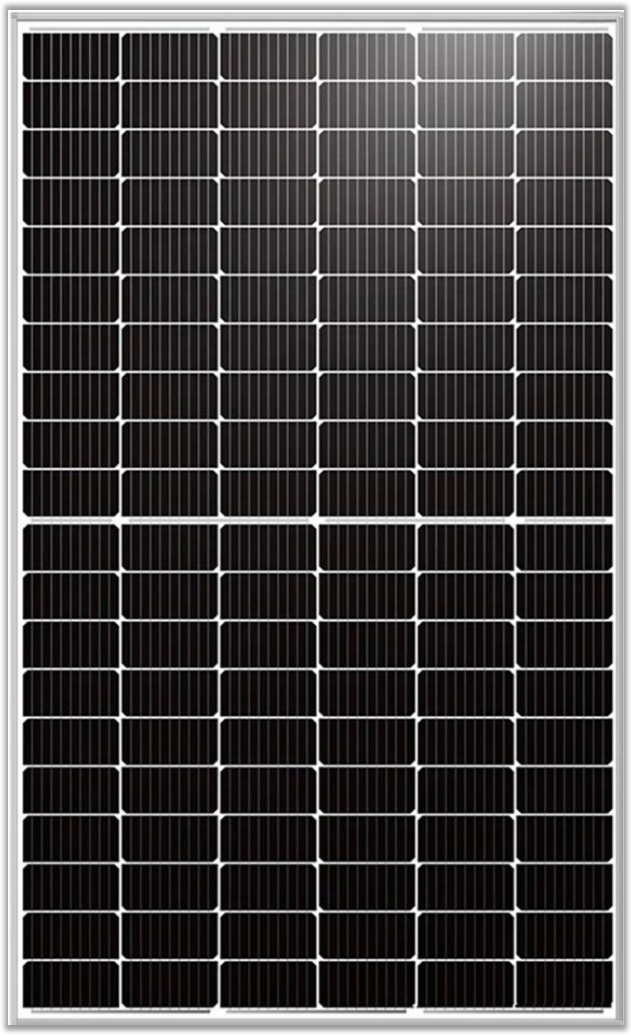
SS-M-440 to 460 Series



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, 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.

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SS-M-440 to 460 Series

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 (Vmp/V)	34.5	34.8	35.0	35.2	35.5
Optimum Operating Current (Imp/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 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, 43± 2° C
* Spectrum AM 1.5 and cell temperature of 25 ˚C
* Wind Load 3600 pa & Mechanical Load 5400 pa

Mechanical Parameter

Module Dimensions	1910 X 1134 X 35 mm / 75.2 X 44.65 X 1.38 inch
Weight	24 kgs / 52.91 lbs
Cell Size (Monocrystalline)	182x91 mm / 7.16x3.58 in
No Of Cell	120 (6 X 20)
Junction Box	IP68, 3 Bypass diodes
Solar Cable Length (4mm²)	1200mm (47.24inch)
Connectors	MC4 compatible
Glass (Tempered & Low Iron)	3.2mm (0.125in) ARC
Encapsulate	EVA
Back Cover	Composite Sheet
Frame (Silver)	Anodized Aluminum Alloy

Temperature Coefficient

Coefficient of Current	+0.05% /˚C
Coefficient of Voltage	-0.29% /˚C
Coefficient of Power	-0.37% /˚C

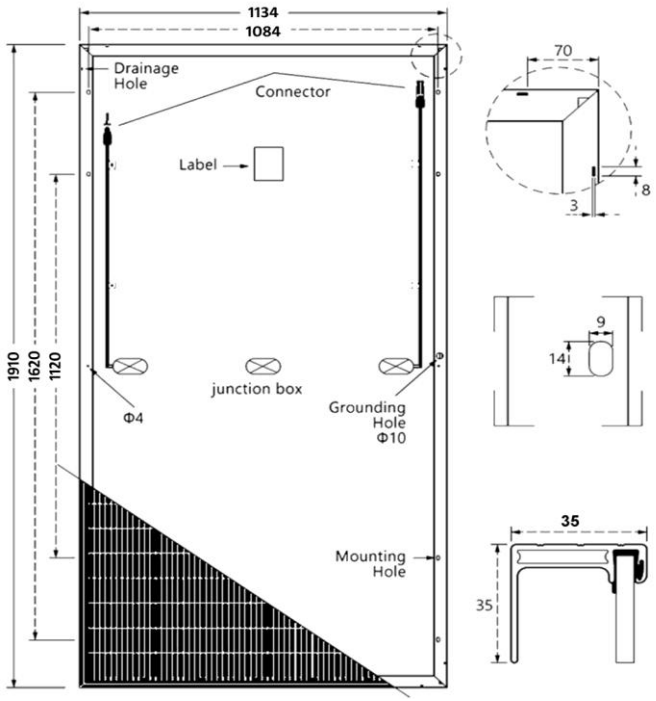
Tested Operating Conditions

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

Product Warranty

Product Warranty	15 Years
Performance Warranty	First 10 Years up to 90%, next 20 years up to 80%

Module Drawing



IV Curve