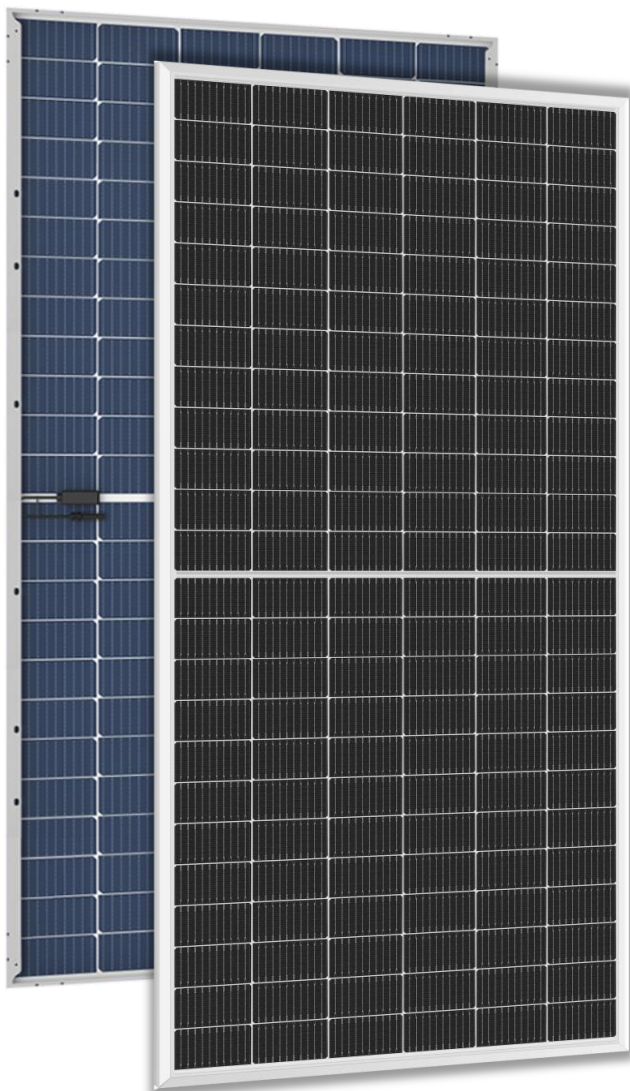




SS-MD-440 to 460 (6*12*2) Series



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 30years performance warranty. Integrated manufacturing of cells & modules in production line guarantees optimum performance.

US OFFICE:

Sungen Power

111 Charlotte Place Suite 101A

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Office Tel: 201-568-1424



SS07HQBDE-SS07HUBDE



SS-MD-440 to 460 (6*12*2) Series

Electric Performance Parameter

Model	SS-M-440	SS-M-450	SS-M-460
Nominal Maximum Power (Pmax/W)	440	450	460
Optimum Operating Voltage (Vmp/V)	40.6	41.21	41.82
Optimum Operating Current (Imp/A)	10.84	10.92	11
Open Circuit Voltage (Voc/V)	49.3	49.61	49.93
Short Circuit Current (Isc/A)	11.33	11.42	11.51

* Measurement Power Tolerance on Power 0 / +%

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

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

* Spectrum AM 1.5 and cell temperature of 25 °C

* Maximum System Voltage: 1500v IEC/UL

Mechanical Parameter

Module Dimensions	2094 X 1038 X 35 mm / 82.44 X 40.87 X 1.38 inch
Weight	27.3 kgs / 60.19lbs
Cell Size (Monocrystalline)	166x83 mm / 6.53x3.27 in
No Of Cell	144 (6 X 12 X 2)
Junction Box	IP68 with Bypass diodes
Solar Cable	300mm (11.81 inch) length with 4mm ²
Connectors	MC4 compatible /IP67 rated
Glass (Tempered & Low Iron ARC)	2.0mm (0.079in)
Encapsulate	EVA
Frame	Anodized Aluminum Alloy
Mechanical Load	5400 pa
Wind Load	3600 pa

Product Warranty

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

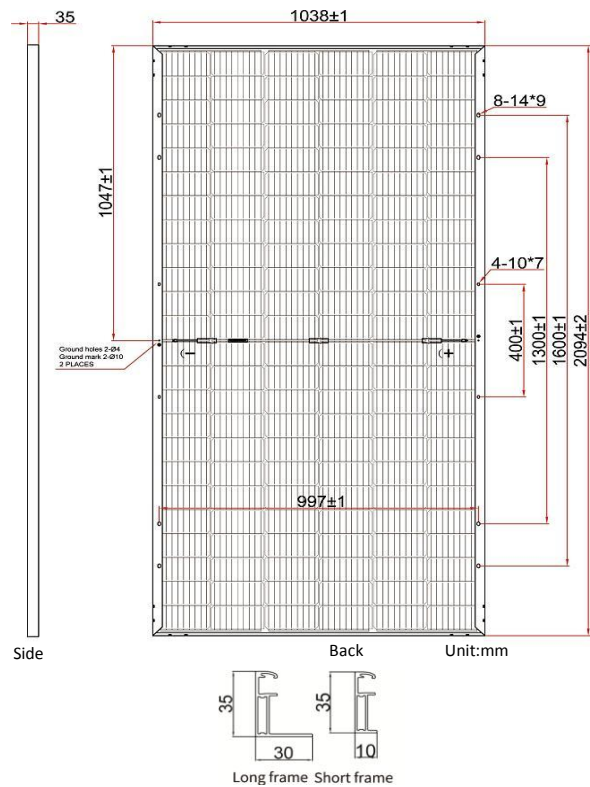
Temperature Coefficient

Coefficient of Current	+0.035% /°C
Coefficient of Voltage	-0.28% /°C
Coefficient of Power	-0.38% /°C

Tested Operating Conditions

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

Module Drawing



IV Curve

