

S-ENERGY

High-efficiency photovoltaic module using silicon nitride monocrystalline cells.

SM-XXXMH1 Series

240~260 Watt Photovoltaic Module

Performance

Rated power (Pmax)	240~260W
Power tolerance	0~3%
Nominal voltage	24V
Limited Warranty	30 years



Electrical Characteristics

Model	260MH1	255MH1	250MH1	245MH1	240MH1
Maximum power (Pmax)	260W	255W	250W	245W	240W
Voltage at Pmax (Vmp)	31.0V	30.4V	30.0V	29.6V	29.4V
Current at Pmax (Imp)	8.40A	8.40A	8.34A	8.28A	8.17A
Warranted minimum Pmax	252W	247W	242W	237W	218W
Short-circuit current (Isc)	9.21A	9.21A	9.13A	9.06A	8.93A
Open-circuit voltage (Voc)	38.9V	38.8V	38.7V	38.5V	38.3V
Temperature coefficient of Isc	0.05%/°C	0.05%/°C	0.05%/°C	0.05%/°C	0.05%/°C
Temperature coefficient of Voc	-0.40%/°C	-0.40%/°C	-0.40%/°C	-0.40%/°C	-0.40%/°C
Temperature coefficient of power	-0.49%/°C	-0.49%/°C	-0.49%/°C	-0.49%/°C	-0.49%/°C
NOCT (Air 20°C; Sun 0.8kW/C; Wind 1m/s)	47±2°C	47±2°C	47±2°C	47±2°C	47±2°C
Maximum series fuse rating	15A	15A	15A	15A	15A
Maximum system voltage	1000V	1000V	1000V	1000V	1000V
Module efficiency	16.37%	16.06%	15.74%	15.43%	15.11%
Dimensions	1620mm x 980mm Depth:50mm				
Weight	19Kg				
Solar cells	60 cells (6 x 10 matrix)				

Mechanical Characteristics

Frame	Static load : 8000Pa (816Kg/m ²) ; Color: Black ; Anodized Aluminum Frame
Output Cables	RHW-2, 12AWG (4mm ²) cable with polarized weatherproof DC rated connectors; Cable length-1000mm (+ -)
Construction	Front : High-transmission 3.2mm low iron tempered glass; Black back sheet; Encapsulant; EVA

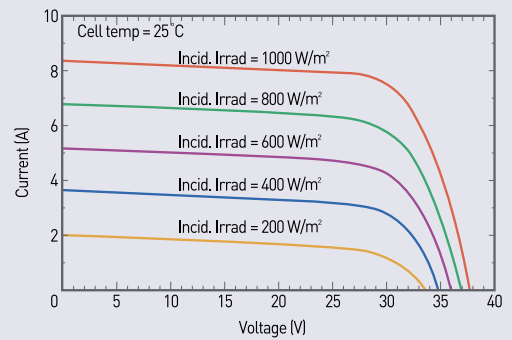
1. Warrant : Power output for 30 years (90% of minimum output power per 10 years, 80% of minimum output power per 30 years). Freedom from defects in materials and workmanship for 10 years.
2. These data represent the performance of typical SM-XXXMH1 Series products, and are based on measurements made in accordance with ASTM E1038 corrected to SRC (STC)

Quality Assurance

S-Energy photovoltaic modules have passed the following tests.

Thermal shock / cycling test	Mechanical loading test
UV preconditioning test	Hot-spot endurance test
Humidity - Freeze test	Water proof test
Electrical insulation test	Outdoor exposure test
Damp-heat test	Hail impact test

Irradiance coefficient

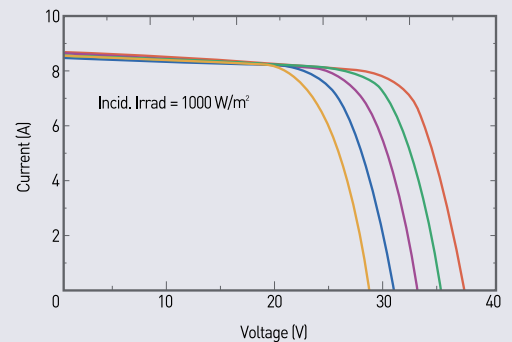


Qualification Test Parameters

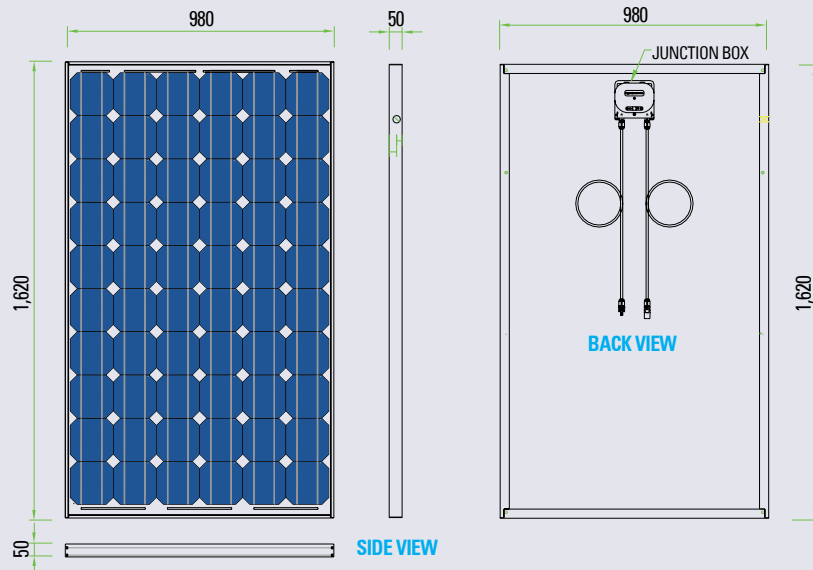
Tests are proceeded by IEC 61215 standard.

Thermal cycling range	-40°C to +85°C
Humidity freeze, damp heat	-40°C to +85°C(85% RH), 85°C(85% RH)
Static load front and back	8000Pa (816Kg/m²)
Hailstone impact	25mm at 23 m/s
STC	1000W/m² ; 25°C ; AM 1.5

Temperature coefficient



Module Diagram



NOTE : This publication summarizes product warranty and specification, which are subject to change without notice.

S-ENERGY

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