

SL45-72_{MAI} 430~455W

HALF-CUT / MBB Series

1,500V Monocrystalline PV Module

CERTIFICATIONS

IEC 61215, 61730 / UL 61730

ISO 9001: Quality Management System

ISO 14001: Environmental Management System

ISO 45001: Occupational Health & Safety System

FEATURES



Enhanced External Load/Impact

Snow Load : 5,400 Pa

Wind Load : 2,400 Pa



PID Resistance

Enhanced Potential Induced Degradation Resistance



Fire Safety

Spread of Flame Class A

Burning Brand Class C



Higher output power

0~+5Wp,

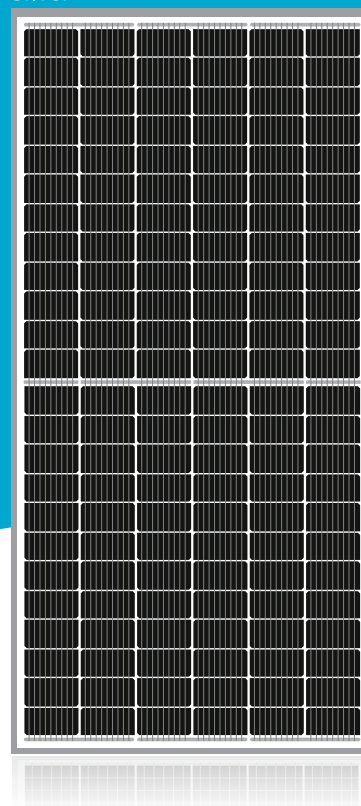
Higher than rated power



Excellent performance under low light conditions

Cloudy days, mornings and evenings

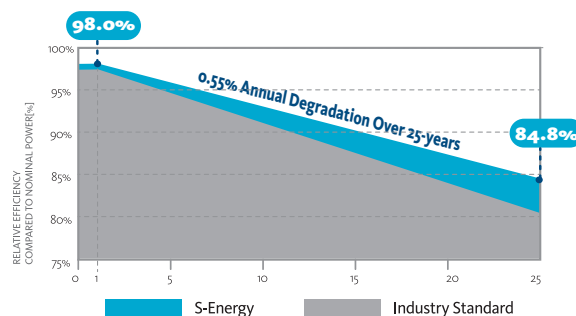
Silver



WARRANTY

12 -YEARS PRODUCT WARRANTY

25 -YEARS LINEAR PERFORMANCE WARRANTY



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Homepage



ELECTRICAL CHARACTERISTICS

STC (Irradiance 1,000W/m², module temperature 25℃, AM=1.5)	SL45-72MAI-430Z	SL45-72MAI-435Z	SL45-72MAI-440Z	SL45-72MAI-445Z	SL45-72MAI-450Z	SL45-72MAI-455Z
Rated Power (Pmax)	430W	435W	440W	445W	450W	455W
Voltage at Pmax (Vmp)	40.60V	40.80V	41.00V	41.20V	41.40V	41.60V
Current at Pmax (Imp)	10.60A	10.67A	10.74A	10.81A	10.87A	10.94A
Warranted Minimum Pmax	430W	435W	440W	445W	450W	455W
Short-Circuit Current (Isc)	11.19A	11.26A	11.33A	11.40A	11.46A	11.53A
Open-Circuit Voltage (Voc)	49.50V	49.70V	49.90V	50.10V	50.30V	50.50V
Module Efficiency	19.78%	20.01%	20.24%	20.47%	20.70%	20.93%
Operating Module Temperature	-40℃ to + 85℃					
Maximum System Voltage	1,500V					
Maximum Fuse Rated Current	20A					
Maximum Reverse Current	27A					
Power Tolerance	0 ~ +5W					

MECHANICAL CHARACTERISTICS

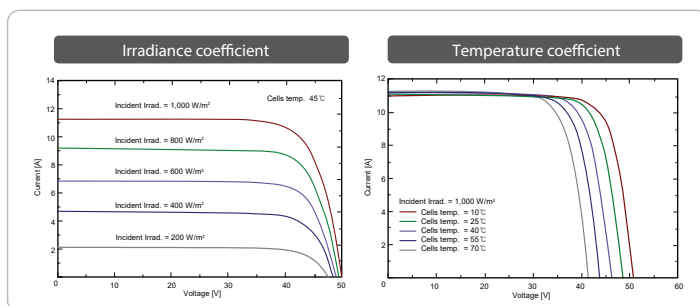
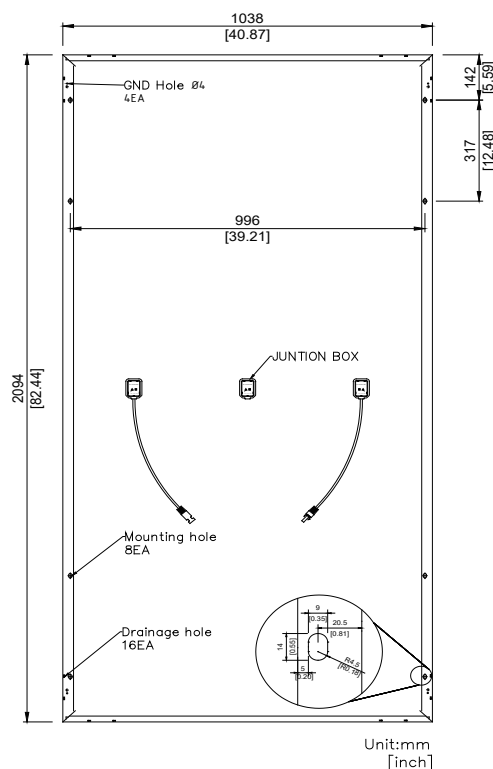
Solar Cells	Monocrystalline Cells 166x83mm
Number of Cells	72 Half Cells (6x24 Matrix)
Dimensions	2,094 x 1,038 x 35mm
Front Load	5,400Pa
Rear Load	2,400Pa
Weight	24kg
Glass	3,2mm High-Transmittance Low Iron Tempered Glass
Frame	Anodized Aluminum Frame (Silver)
J-Box	IP68 with 3 bypass diodes
Output Cables	PV Wire, 12AWG (4mm ²), Cable Length : 350mm * cable length can be customized
Connectors	MC4 Compatible

TEMPERATURE CHARACTERISTICS

Temperature coefficient of Isc	0,050 % / °C
Temperature coefficient of Voc	-0,290 % / °C
Temperature coefficient of power	-0,360 % / °C
NMOT (Tair 20°C ; Irradiance 800W/m² ; Wind 1m/s)	44±2 °C

PACKING CONFIGURATION

Container	20'	40'
Modules Per Pallet	31pcs	31pcs
Pallets Per Container	8pallets	22pallets
Modules Per Container	248pcs	682pcs



REMARKS

- Pmax measurement tolerance : $\pm 2.5\%$
- S-Energy uses triple A class simulator.
- Specification subject to change without prior notice.
- S-Energy reserves the rights of final interpretation.

NOTES

Installation instruction supplied with the module must be duly followed. For further information which is not mentioned on installation guides or directions, please contact to our technical service department.
· E-mail : Inquiry@s-energy.com