

SL45-72_{MBI} 435~450W

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,

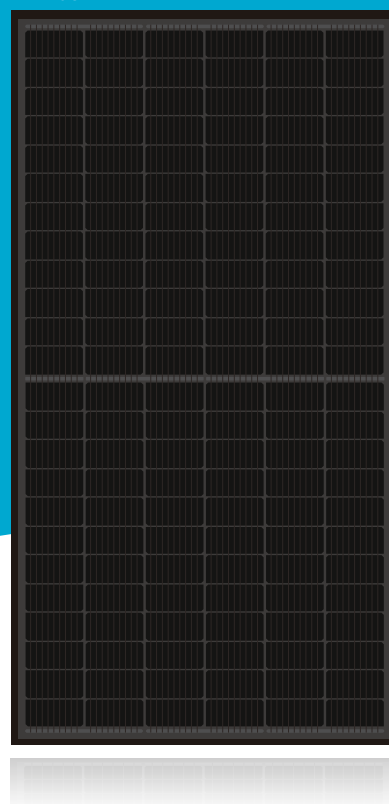
Higher than rated power



Excellent performance under low light conditions

Cloudy days, mornings and evenings

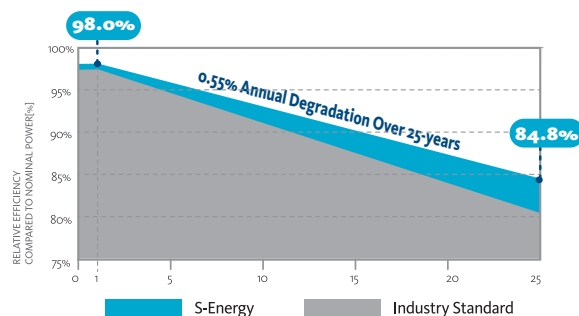
All Black



WARRANTY

12 -YEARS PRODUCT WARRANTY

25 -YEARS LINEAR PERFORMANCE WARRANTY



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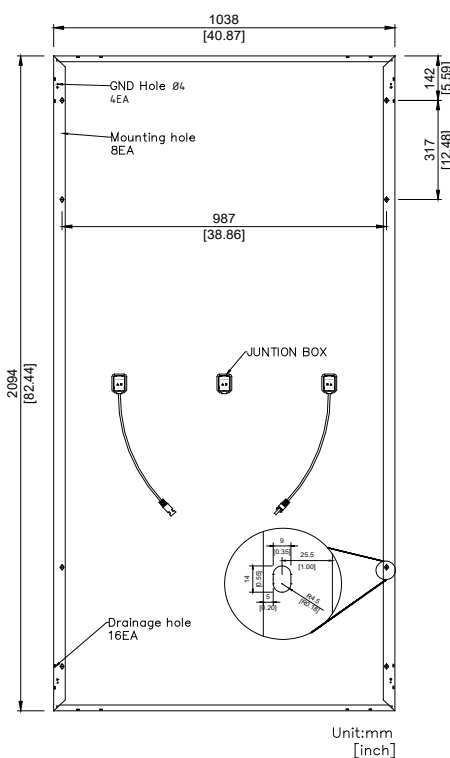


ELECTRICAL CHARACTERISTICS

STC (Irradiance 1,000W/m², module temperature 25°C, AM=1.5)	SL45-72MBI-435Z	SL45-72MBI-440Z	SL45-72MBI-445Z	SL45-72MBI-450Z
Rated Power (Pmax)	435W	440W	445W	450W
Voltage at Pmax (Vmp)	40.80V	41.0V	41.2V	41.4V
Current at Pmax (Imp)	10.67A	10.74A	10.81A	10.87A
Warranted Minimum Pmax	435W	440W	445W	450W
Short-Circuit Current (Isc)	11.26A	11.33A	11.40A	11.46A
Open-Circuit Voltage (Voc)	49.70V	49.9V	50.1V	50.3V
Module Efficiency	20.01%	20.24%	20.47%	20.70%
Operating Module Temperature	-40°C to + 85°C			
Maximum System Voltage	1,500V			
Fuse Rating	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 (Black)
J-Box	≥ IP67 with 3 bypass diodes
Output Cables	PV Wire, 12AWG (4mm ²), Cable Length : 350mm * cable length can be customized
Connectors	MC4 Compatible

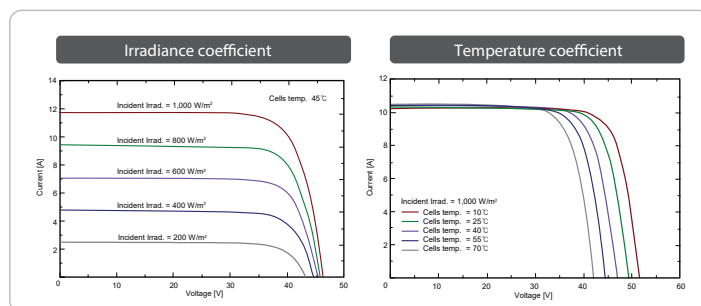


TEMPERATURE CHARACTERISTICS

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	10pallets	22pallets
Modules Per Container	310pcs	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