

SL65-60MBJ

440~460W

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,

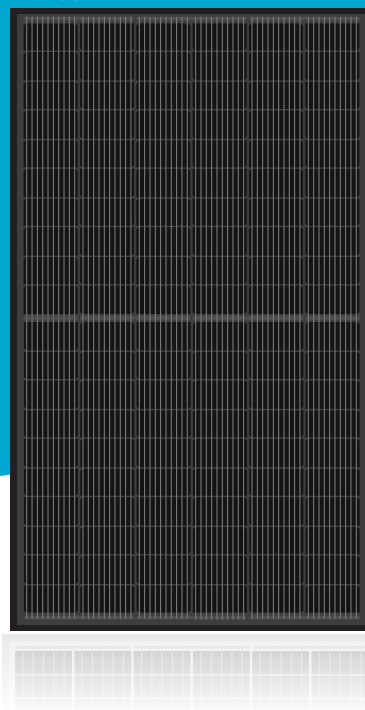
Higher than rated power



Excellent performance under low light conditions

Cloudy days, mornings and evenings

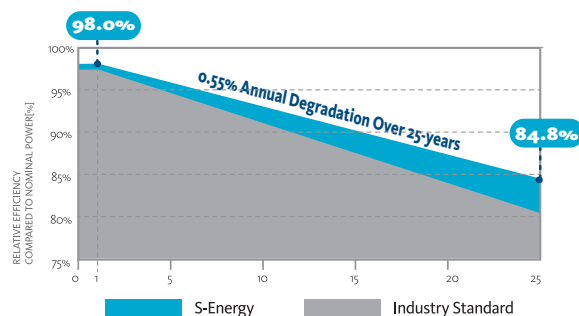
All Black



WARRANTY

12 -YEARS PRODUCT WARRANTY

25 -YEARS LINEAR PERFORMANCE WARRANTY



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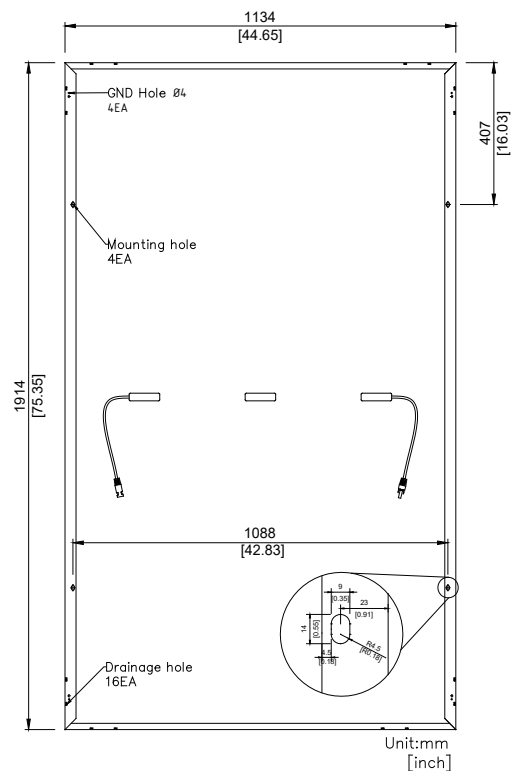


ELECTRICAL CHARACTERISTICS

STC (Irradiance 1,000W/m ² , module temperature 25°C, AM=1.5)	SL65-60MBJ-440Z	SL65-60MBJ-445Z	SL65-60MBJ-450Z	SL65-60MBJ-455Z	SL65-60MBJ-460Z
Rated Power (P _{max})	440W	445W	450W	455W	460W
Voltage at P _{max} (V _{mp})	34.10V	34.30V	34.50V	34.70V	34.90V
Current at P _{max} (I _{mp})	12.91A	12.98A	13.05A	13.12A	13.19A
Warranted Minimum P _{max}	440W	445W	450W	455W	460W
Short-Circuit Current (I _{sc})	13.64A	13.71A	13.78A	13.85A	13.92A
Open-Circuit Voltage (V _{oc})	41.00V	41.20V	41.40V	41.60V	41.80V
Module Efficiency	20.27%	20.50%	20.73%	20.96%	21.19%
Operating Module Temperature	-40°C to + 85°C				
Maximum System Voltage	1,500V				
Fuse Rating	25A				
Maximum Reverse Current	33.75A				
Power Tolerance	0 ~ +5W				

MECHANICAL CHARACTERISTICS

Solar Cells	Monocrystalline Cells 182x91mm
Number of Cells	60 Half Cells (6x20 Matrix)
Dimensions	1,914 x 1,134 x 30mm
Front Load	5,400Pa
Rear Load	2,400Pa
Weight	24.0kg
Glass	3.2mm High-Transmittance Low Iron Tempered Glass
Frame	Anodized Aluminum Frame (Black)
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 I _{sc}	0.050 % / °C
Temperature coefficient of V _{oc}	-0.290 % / °C
Temperature coefficient of power	-0.350 % / °C
NOCT (T _{air} 20°C ; Irradiance 800W/m ² ; Wind 1m/s)	44±2 °C

PACKING CONFIGURATION

Container	20'	40'
Modules Per Pallet	36pcs	36pcs
Pallets Per Container	6pallets	24pallets
Modules Per Container	216pcs	864pcs

REMARKS

- P_{max} measurement tolerance : ±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