



Lumina I



High Power Output

Solarspace efficient cells with MBB and high-density encapsulation ensures higher power output



High Reliability

Excellent harsh tests results and advanced half-cell tech improve product reliability for long-term life cycle



More Power Generation

Gallium doped wafers reduce annual power degradation, optimized circuit design ensures more power generation under shading



Great Adaptability

Sensible dimension design suitable for all scenarios

SolarSpace Technology Co., Ltd. was established in 2011, as a world leading solar cell and module manufacturer, concentrating on high efficient solar-technology production with 58.75GW capacity of solar cell and 5.7GW capacity of solar module in China and overseas.

*Please refer to SolarSpace for details

SS8-60HSB 445-465M

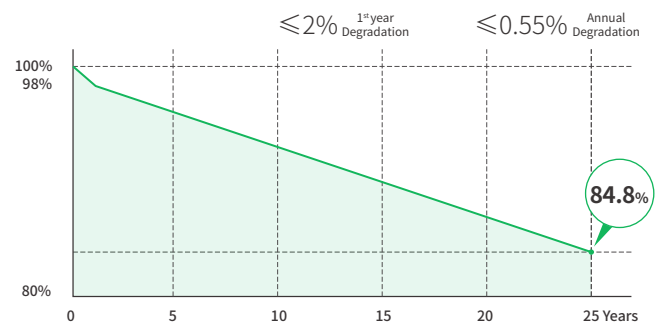
Mono-Facial Module

465W

Maximum Power Output

21.48%

Maximum Module Efficiency



12 Years Product Warranty **25** Years Linear Power Warranty

Comprehensive Certificates

- IEC61215 • IEC61730
- IEC61701: Salt mist corrosion test • IEC62716: Ammonia corrosion test
- IEC60068: Dust and Sand test
- ISO9001:2015: Quality Management System
- ISO14001:2015: Environment Management System
- ISO45001:2018: Occupational Health and Safety Management Systems



Electric Characteristics (STC)

Module Type	SS8-60HSB -445M	SS8-60HSB -450M	SS8-60HSB -455M	SS8-60HSB -460M	SS8-60HSB -465M
Maximum Power (Pmax) [W]	445	450	455	460	465
Open-Circuit Voltage (Voc)[V]	41.21	41.33	41.46	41.58	41.71
Maximum Power Voltage (Vmp) [V]	34.50	34.67	34.87	35.07	35.26
Short-Circuit Current (Isc)[A]	13.79	13.87	13.94	14.01	14.08
Maximum Power Current (Imp) [A]	12.90	12.98	13.05	13.12	13.19
Module Efficiency	20.56%	20.79%	21.02%	21.25%	21.48%

Irradiation 1000W/m², Cell Temperature 25°C, AM=1.5

Temperature coefficients

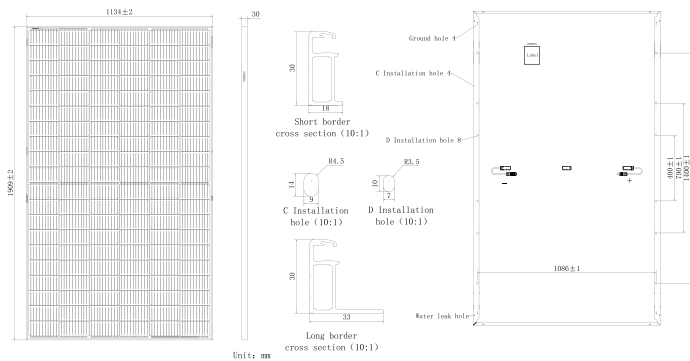
Temperature coefficient of Isc	+0.045%/°C
Temperature coefficient of Voc	-0.265%/°C
Temperature coefficient of Pmax	-0.335%/°C
NMOT	45±2°C

Electric Characteristics (NMOT)

Module Type	SS8-60HSB -445M	SS8-60HSB -450M	SS8-60HSB -455M	SS8-60HSB -460M	SS8-60HSB -465M
Maximum Power (Pmax) [W]	336	340	344	348	352
Open-Circuit Voltage (Voc)[V]	38.57	38.68	38.81	38.92	39.04
Maximum Power Voltage (Vmp) [V]	32.56	32.76	32.96	33.15	33.32
Short-Circuit Current (Isc)[A]	11.03	11.1	11.15	11.21	11.27
Maximum Power Current (Imp) [A]	10.32	10.38	10.44	10.51	10.57

Irradiance 800 W/m², Ambient Temperature 20 °C, Wind Speed 1 m/s, AM=1.5

Engineering Design

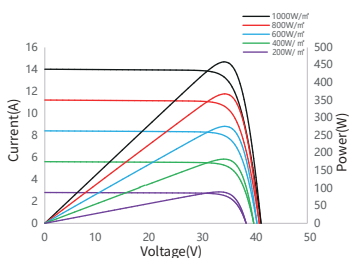


Mechanical Characteristics

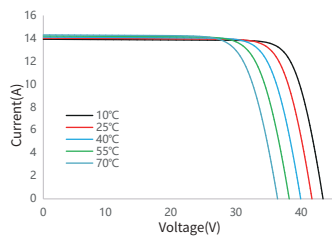
Cell Type	Mono PERC (M10)
Number of Cells	120(6x20)
Dimensions	1909X1134X30mm
Weight	22.4kg
Glass	Single glass, 3.2mm coated tempered glass
Frame	Black, Anodized Aluminum Alloy
Output Cables	4mm ² (IEC),12AWG(UL) 300mm (including connector) or Customized Length
Junction Box	IP68 Rated, 3 diodes
Connector	MC4-EVO2 or MC4 Compatible
Packaging	36 Pieces/Pallet, 864 pieces/40' container

Characteristics

I-V/P-V Curve at Different Irradiation
SS8-60HSB-450M



I-V Curve at Different Temperature
SS8-60HSB-450M



Operating Conditions

Maximum System Voltage	1500V DC
Power Tolerance	0~+3%
Operating Temperature	-40°C~+85°C
Maximum Series Fuse Rating	25A
Mechanical Load Front Rear	5400Pa
Mechanical Load Back Rear	2400Pa

