



# 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

**SS8-60HS**

**445-465M**

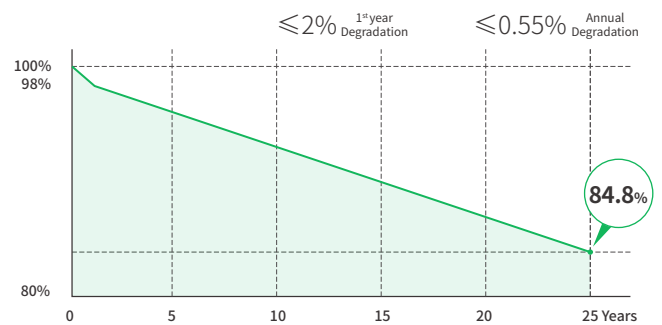
Mono-Facial Module

**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	SS8-60HS -445M	SS8-60HS -450M	SS8-60HS -455M	SS8-60HS -460M	SS8-60HS -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/m<sup>2</sup>, Cell Temperature 25°C, AM=1.5

**Temperature coefficients**

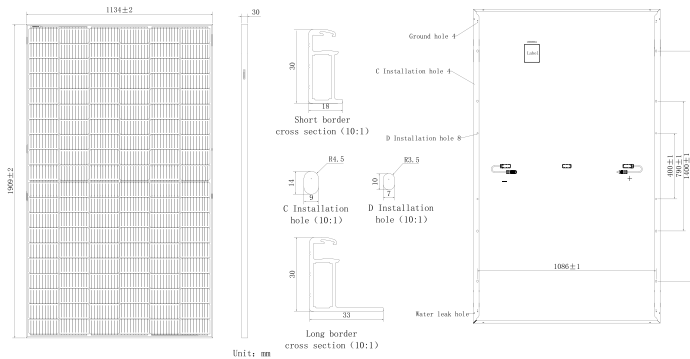
Temperature coefficient of Isc	+0.045%/°C
Temperature coefficient of Voc	-0.265%/°C
Temperature coefficient of Pmax	-0.335%/°C
NMOT	45±2°C

**Electric Characteristics (NMOT)**

Module Type	SS8-60HS -445M	SS8-60HS -450M	SS8-60HS -455M	SS8-60HS -460M	SS8-60HS -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/m<sup>2</sup>, Ambient Temperature 20 °C, Wind Speed 1 m/s, AM=1.5

**Engineering Design**

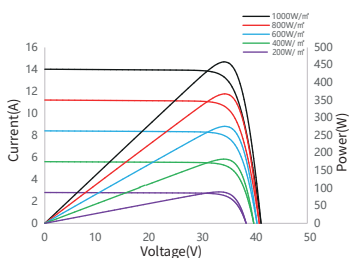


**Mechanical Characteristics**

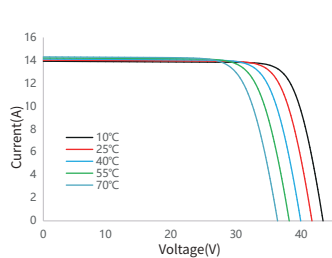
Cell Type	Mono PERC (M10)
Number of Cells	120(6x20)
Dimensions	1909X1134X30mm
Weight	22.4kg
Glass	Single glass, 3.2mm coated tempered glass
Frame	Anodized Aluminum Alloy
Output Cables	4mm <sup>2</sup> (IEC), 12AWG(UL) 300mm (including connector) or Customized Length
Junction Box	IP68 Rated, 3 diodes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

**Characteristics**

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



I-V Curve at Different Temperature  
SS8-60HS-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

