



# 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



## High ROI

Bifacial power generation reduces BOS and system LCOE dramatically, promoting the project ROI

**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

## SS8-66HD      490-510M

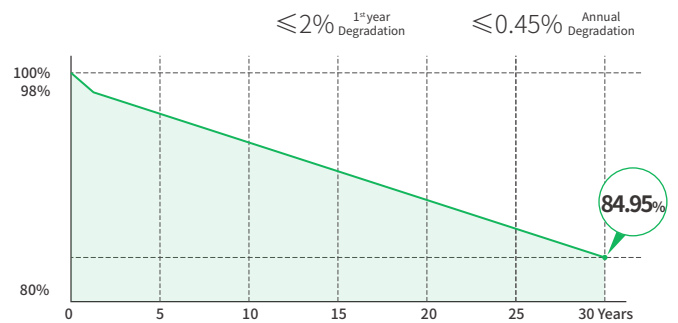
Bifacial Dual Glass Module

# 510W

Maximum Power Output

# 21.48%

Maximum Module Efficiency



**15** Years Product Warranty    **30** 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	SS8-66HD -490M	SS8-66HD -495M	SS8-66HD -500M	SS8-66HD -505M	SS8-66HD -510M
Maximum Power (Pmax) [W]	490	495	500	505	510
Open-Circuit Voltage (Voc)[V]	45.32	45.46	45.60	45.73	45.87
Maximum Power Voltage (Vmp) [V]	37.52	37.68	37.84	38.01	38.18
Short-Circuit Current (Isc)[A]	13.91	13.99	14.07	14.14	14.21
Maximum Power Current (Imp) [A]	13.06	13.14	13.22	13.29	13.36
Module Efficiency	20.64%	20.85%	21.06%	21.27%	21.48%

Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, AM=1.5

## Electric Characteristics (NMOT)

Module Type	SS8-66HD -490M	SS8-66HD -495M	SS8-66HD -500M	SS8-66HD -505M	SS8-66HD -510M
Maximum Power (Pmax) [W]	371	375	379	383	387
Open-Circuit Voltage (Voc)[V]	43.03	43.16	43.29	43.42	43.55
Maximum Power Voltage (Vmp) [V]	35.88	36.03	36.18	36.33	36.48
Short-Circuit Current (Isc)[A]	11.14	11.21	11.28	11.35	11.42
Maximum Power Current (Imp) [A]	10.35	10.41	10.48	10.55	10.61

Irradiance 800 W/m<sup>2</sup>, Ambient Temperature 20 °C, Wind Speed 1 m/s, AM=1.5

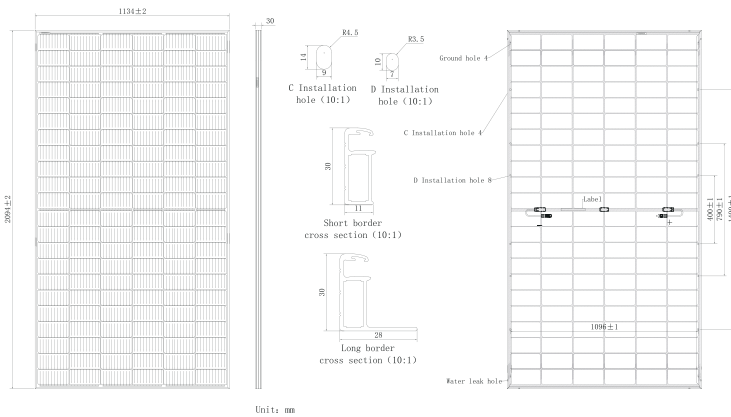
## Bifacial Output-Rearside Power Gain (505W)

Power Gain	5%	10%	15%	20%	25%
Maximum Power (Pmax) [W]	530	556	581	606	631
Open-Circuit Voltage (Voc)[V]	45.79	45.79	45.79	45.89	45.89
Maximum Power Voltage (Vmp) [V]	38.03	38.03	38.03	38.12	38.12
Short-Circuit Current (Isc)[A]	14.84	15.55	16.27	16.97	17.67
Maximum Power Current (Imp) [A]	13.94	14.63	15.29	15.91	16.56

## Temperature coefficients

Temperature coefficient of Isc	+0.045%/°C
Temperature coefficient of Voc	-0.265%/°C
Temperature coefficient of Pmax	-0.334%/°C
NMOT	45±2°C

## Engineering Design

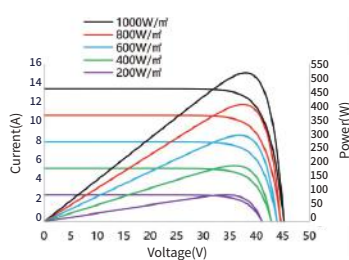


## Mechanical Characteristics

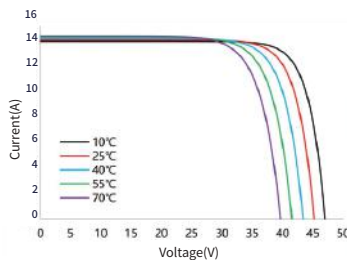
Cell Type	Mono PERC (M10)
Number of Cells	132(6x22)
Dimensions	2094X1134X30mm
Weight	29.20kg
Glass	Front Glass, 2.0mm AR coated semi-tempered glass Back Glass, 2.0mm glazed semi-tempered glass
Frame	Anodized Aluminum Alloy
Output Cables	4mm <sup>2</sup> (IEC),12AWG(UL) 1200mm (including connector) or Customized Length
Junction Box	IP68 Rated, 3 diodes
Connector	MC4-EVO2 or MC4 Compatible
Packaging	36 Pieces/Pallet, 792 pieces/40' container

## Characteristics

I-V/P-V Curve at Different Irradiation  
SS8-66HD-505M



I-V Curve at Different Temperature  
SS8-66HD-505M



## Operating Conditions

Maximum System Voltage	1500V DC (IEC)
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
Bifaciality	70±10%

