



# 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 50GW+ capacity of solar cell and 5.7GW capacity of solar module in China and overseas.

\*Please refer to SolarSpace for details

## SS8-72HD 535-555M

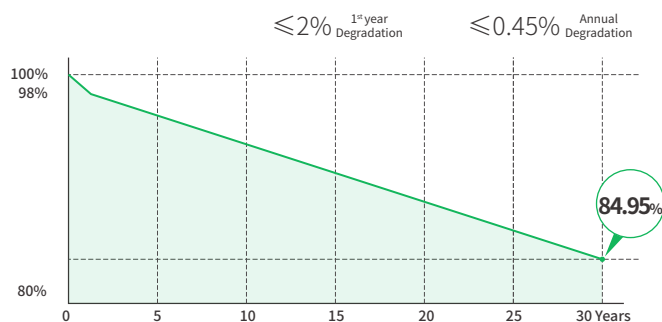
Bifacial Dual Glass Module

# 555W

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	SS8-72HD-535M	SS8-72HD-540M	SS8-72HD-545M	SS8-72HD-550M	SS8-72HD-555M
Maximum Power (Pmax) [W]	535	540	545	550	555
Open-Circuit Voltage (Voc)[V]	49.44	49.61	49.76	49.91	50.03
Maximum Power Voltage (Vmp) [V]	41.46	41.65	41.81	41.97	42.15
Short-Circuit Current (Isc)[A]	13.78	13.85	13.92	14.02	14.07
Maximum Power Current (Imp) [A]	12.90	12.97	13.04	13.10	13.17
Module Efficiency	20.71%	20.90%	21.10%	21.29%	21.48%

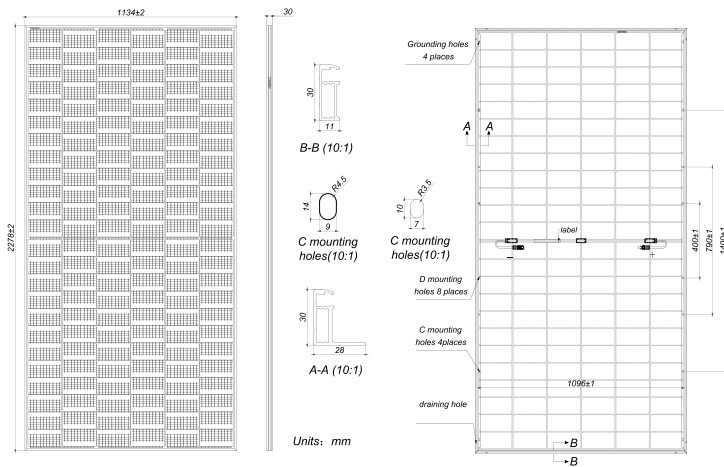
Irradiation 1000W/m<sup>2</sup>, Cell Temperature 25°C, AM=1.5

## Electric Characteristics (NMOT)

Module Type	SS8-72HD-535M	SS8-72HD-540M	SS8-72HD-545M	SS8-72HD-550M	SS8-72HD-555M
Maximum Power (Pmax) [W]	405	408	412	416	420
Open-Circuit Voltage (Voc)[V]	46.31	46.43	46.55	46.68	46.84
Maximum Power Voltage (Vmp) [V]	38.84	39.00	39.21	39.44	39.67
Short-Circuit Current (Isc)[A]	11.05	11.10	11.13	11.18	11.22
Maximum Power Current (Imp) [A]	10.43	10.47	10.51	10.55	10.59

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

## Engineering Design



Units: mm

## Bifacial Output-Rearside Power Gain (545W)

Power Gain	5%	10%	15%	20%	25%
Maximum Power (Pmax) [W]	572	600	627	654	681
Open-Circuit Voltage (Voc)[V]	49.77	49.77	49.77	49.87	49.87
Maximum Power Voltage (Vmp) [V]	41.81	41.82	41.82	41.92	41.92
Short-Circuit Current (Isc)[A]	14.59	15.29	15.99	16.68	17.37
Maximum Power Current (Imp) [A]	13.69	14.35	15.01	15.64	16.26

## Temperature coefficients

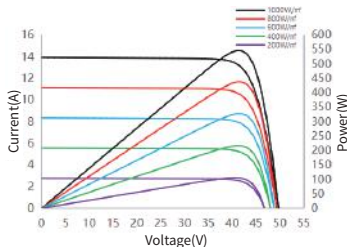
Temperature coefficient of Isc	+0.045%/°C
Temperature coefficient of Voc	-0.275%/°C
Temperature coefficient of Pmax	-0.350%/°C
NMOT	45 ± 2°C

## Mechanical Characteristics

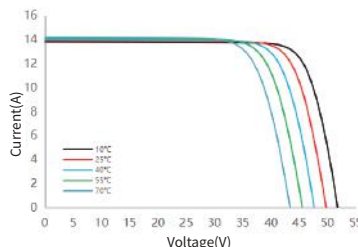
Cell Type	Mono PERC (M10)
Number of Cells	144(6x24)
Dimensions	2278X1134X30mm
Weight	31.2kg
Glass	Front Glass, 2.0mm AR coated semi-tempered glass Back Glass, 2.0mm glazed semi-tempered glass
Frame	Silver, Anodized Aluminum Alloy
Output Cables	4mm <sup>2</sup> (IEC), 12AWG(UL), 300mm (including connector) or 1200mm(including connector) Customized Length
Junction Box	IP68 Rated, 3 diodes
Connector	MC4-EVO2 or MC4 Compatible
Packaging	36 Pieces/Pallet, 720 pieces/40' container

## Characteristics

I-V/P-V Curve at Different Irradiation  
SS8-72HD-545M



I-V Curve at Different Temperature  
SS8-72HD-545M



## 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%

