



# 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

## SS7-72HS

## 540-560M

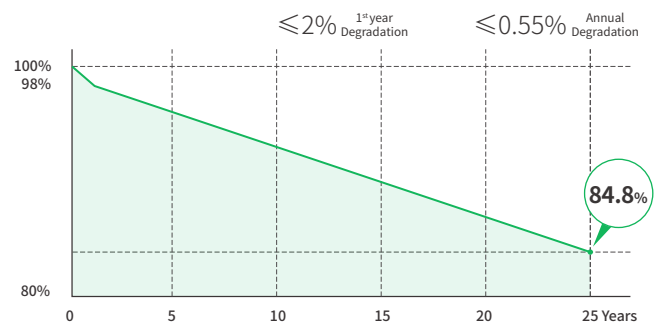
### Mono-Facial Module

# 560W

Maximum Power Output

# 21.68%

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                     | SS7-72HS<br>-540M | SS7-72HS<br>-545M | SS7-72HS<br>-550M | SS7-72HS<br>-555M | SS7-72HS<br>-560M |
|---------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Maximum Power (Pmax) [W]        | 540               | 545               | 550               | 555               | 560               |
| Open-Circuit Voltage (Voc)[V]   | 49.61             | 49.76             | 49.91             | 50.03             | 50.15             |
| Maximum Power Voltage (Vmp) [V] | 41.65             | 41.81             | 41.97             | 42.15             | 42.33             |
| Short-Circuit Current (Isc)[A]  | 13.85             | 13.92             | 14.02             | 14.07             | 14.14             |
| Maximum Power Current (Imp) [A] | 12.97             | 13.04             | 13.10             | 13.17             | 13.23             |
| Module Efficiency               | 20.90%            | 21.10%            | 21.29%            | 21.48%            | 21.68%            |

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

**Temperature coefficients**

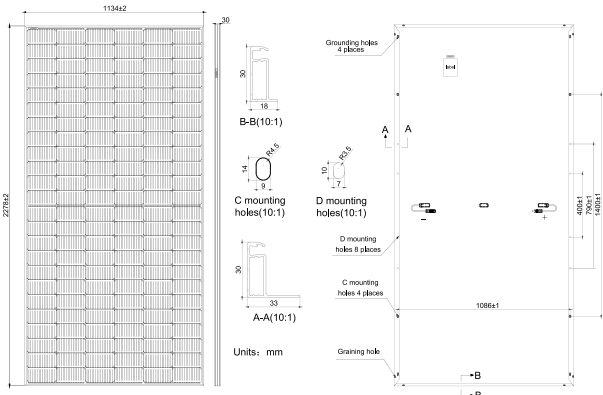
|                                 |            |
|---------------------------------|------------|
| Temperature coefficient of Isc  | +0.045%/°C |
| Temperature coefficient of Voc  | -0.265%/°C |
| Temperature coefficient of Pmax | -0.335%/°C |
| NMOT                            | 45±2°C     |

**Electric Characteristics (NMOT)**

| Module Type                     | SS7-72HS<br>-540M | SS7-72HS<br>-545M | SS7-72HS<br>-550M | SS7-72HS<br>-555M | SS7-72HS<br>-560M |
|---------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Maximum Power (Pmax) [W]        | 408               | 412               | 416               | 420               | 424               |
| Open-Circuit Voltage (Voc)[V]   | 46.43             | 46.55             | 46.68             | 46.84             | 46.98             |
| Maximum Power Voltage (Vmp) [V] | 39.00             | 39.21             | 39.44             | 39.67             | 39.89             |
| Short-Circuit Current (Isc)[A]  | 11.10             | 11.13             | 11.18             | 11.22             | 11.27             |
| Maximum Power Current (Imp) [A] | 10.47             | 10.51             | 10.55             | 10.59             | 10.63             |

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

**Engineering Design**

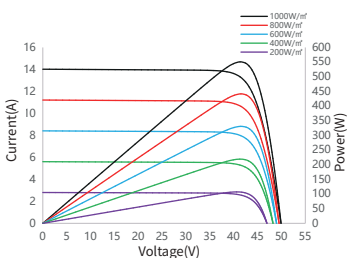


**Mechanical Characteristics**

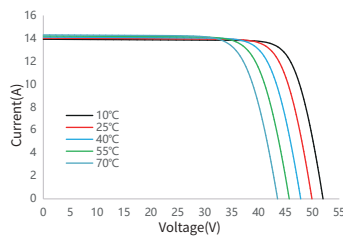
|                 |  |
|-----------------|--|
| Cell Type       | Mono PERC (M10)  |
| Number of Cells | 144(6x24)  |
| Dimensions      | 2278X1134X30mm   |
| Weight          | 27.5kg   |
| Glass           | Single glass, 3.2mm coated tempered glass  |
| Frame           | Silver, Anodized Aluminum Alloy  |
| Output Cables   | 4mm <sup>2</sup> (IEC),12AWG(UL)<br>300mm (including connector) or 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  
SS7-72HS -550M



I-V Curve at Different Temperature  
SS7-72HS -550M



**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      |

