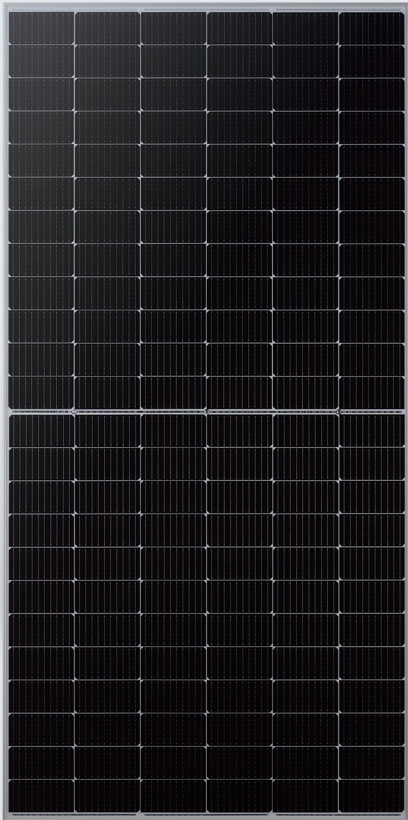


# Lumina I



**460W**

Maximum Power Output

**21.2%**

Maximum Module Efficiency

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 30GW+ capacity of solar cell and 5.7GW capacity of solar module in China and overseas.

## SS6-72HD 435-460M

### Bifacial Dual Glass Module



#### 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



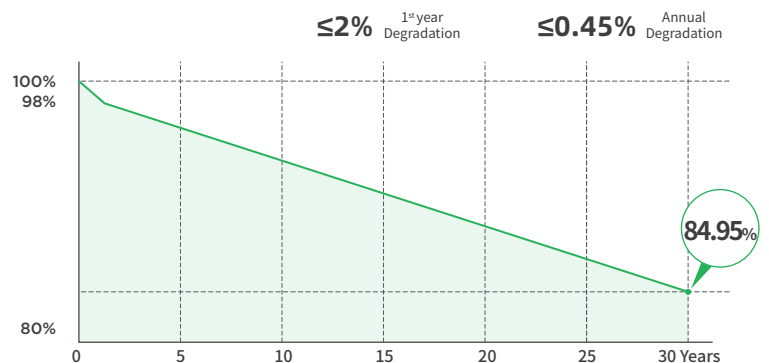
#### More Power Generation

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



**12** Years Product Warranty **30** Years Linear Power Warranty

#### Comprehensive Certificates

- UL61215
- UL61730
- ISO9001:2015: Quality Management System
- ISO14001:2015: Environment Management System
- ISO45001:2018: Occupational Health and Safety Management Systems



**Electric Characteristics** STC: Irradiation 1000W/m<sup>2</sup>, Cell Temperature 25°C, AM=1.5

Module Type	SS6-72HD -435M	SS6-72HD -440M	SS6-72HD -445M	SS6-72HD -450M	SS6-72HD -455M	SS6-72HD -460M
Maximum Power (Pmax) [W]	435	440	445	450	455	460
Open-Circuit Voltage (Voc)[V]	49.10	49.20	49.40	49.60	49.80	50.00
Maximum Power Voltage (Vmp) [V]	40.80	41.00	41.20	41.40	41.60	41.80
Short-Circuit Current (Isc)[A]	11.36	11.45	11.52	11.58	11.65	11.73
Maximum Power Current (Imp) [A]	10.66	10.73	10.80	10.87	10.93	11.01
Module Efficiency	20.01%	20.24%	20.47%	20.70%	20.93%	21.16%
Power Tolerance	0~+5W					
Temperature coefficient of Isc	+0.050%/°C					
Temperature coefficient of Voc	-0.265%/°C					
Temperature coefficient of Pmax	-0.340%/°C					

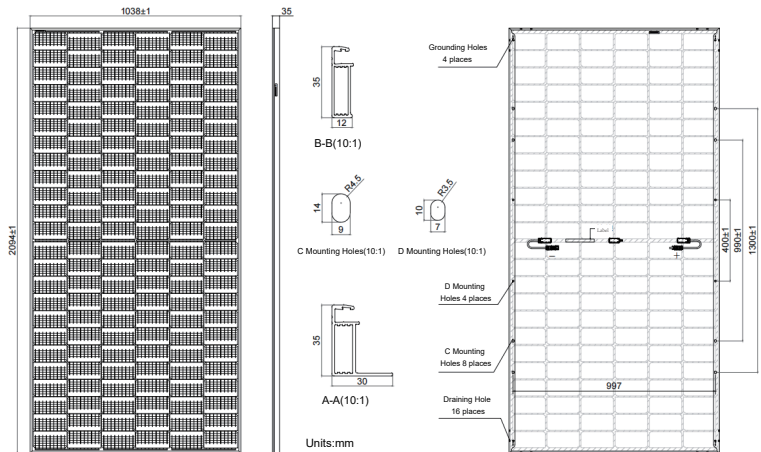
**Bifacial Output-Rearside Power Gain** (445W)

	5%	10%	15%	20%	25%
Power Gain	5%	10%	15%	20%	25%
Maximum Power (Pmax) [W]	467	490	512	534	556
Open-Circuit Voltage (Voc)[V]	49.40	49.40	49.50	49.50	49.50
Maximum Power Voltage (Vmp) [V]	41.20	41.20	41.30	41.30	41.30
Short-Circuit Current (Isc)[A]	12.09	12.67	13.24	13.82	14.40
Maximum Power Current (Imp) [A]	11.34	11.88	12.42	12.96	13.50

**Mechanical Characteristics**

Cell Type	Mono PERC (M6)
Number of Cells	144(6x24)
Dimensions	2094X1038X35mm
Weight	27.5kg
Glass	Front Glass, 2.0mm AR coated tempered glass Back Glass, 2.0mm glazed tempered glass
Output Cables	4mm <sup>2</sup> (IEC),12AWG(UL), +400/-200mm
Junction Box	IP68 Rated, 3 diodes
Packaging	31 Pieces/Pallet, 682 pieces/40' container

**Engineering Design**

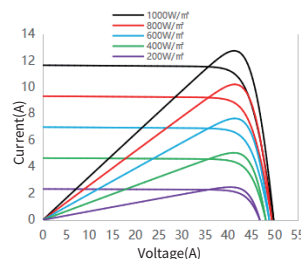


**Operating Conditions**

Maximum System Voltage	1500V DC (IEC)
Operating Temperature	-40°C~+85°C
Maximum Series Fuse Rating	25A
Mechanical Load Front Rear	5400Pa
Mechanical Load Back Rear	2400Pa
Nominal operating cell temperature	45±2°C
Bifaciality	70±10%
Bifaciality=Pmax,rear/Rated Pmax,front	

**CHARACTERISTICS**

I-V/P-V Curve at Different Irradiation  
SS6-72HD-455M



I-V Curve at Different Temperature  
SS6-72HD -455M

