



# Lumina II



## Super Power Output

SolarSpace advanced N-Type cells combined with MBB and high-density encapsulation provides ultra-high power output



## High Reliability

Excellent harsh tests results and advanced half-cell tech improve product reliability for long-term life cycle



## Extra power generation

N-type wafers and cells bring ultralow LID&LeTID degradation, less than 1% 1<sup>st</sup> year degradation guaranteed, in addition lower temperature coefficient and better weak-light response provide extra power generation



## 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 60GW+ capacity of solar cell and 7.2GW capacity of solar module in China and overseas.

\*Please refer to SolarSpace for details

## SS8-72HD 570-595N

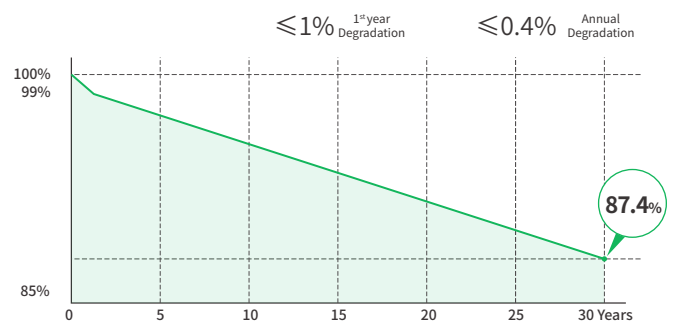
N-Type Bifacial Dual Glass Module

# 595W

Maximum Power Output

# 23.03%

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	SS8-72HD	SS8-72HD	SS8-72HD	SS8-72HD	SS8-72HD
	-570N	-575N	-580N	-585N	-590N	-595N
Maximum Power (Pmax) [W]	570	575	580	585	590	595
Open-Circuit Voltage (Voc)[V]	53.55	53.82	54.09	54.36	54.63	54.90
Maximum Power Voltage (Vmp) [V]	43.95	44.17	44.39	44.61	44.83	45.05
Short-Circuit Current (Isc)[A]	13.61	13.66	13.71	13.76	13.81	13.86
Maximum Power Current (Imp) [A]	12.97	13.02	13.07	13.12	13.17	13.21
Module Efficiency	22.07%	22.26%	22.45%	22.65%	22.84%	23.03%

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

## Electric Characteristics (NMOT)

Module Type	SS8-72HD	SS8-72HD	SS8-72HD	SS8-72HD	SS8-72HD	SS8-72HD
	-570N	-575N	-580N	-585N	-590N	-595N
Maximum Power (Pmax) [W]	429	433	437	441	445	449
Open-Circuit Voltage (Voc)[V]	50.86	51.11	51.37	51.63	51.88	52.14
Maximum Power Voltage (Vmp) [V]	41.18	41.35	41.53	41.67	41.85	42.03
Short-Circuit Current (Isc)[A]	10.99	11.03	11.07	11.11	11.15	11.19
Maximum Power Current (Imp) [A]	10.42	10.48	10.53	10.59	10.64	10.69

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

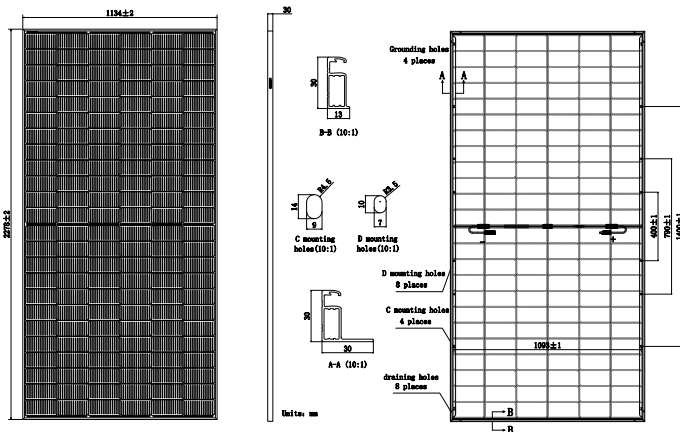
## Bifacial Output-Rearside Power Gain (590W)

Power Gain	5%	10%	15%	20%	25%
	Maximum Power (Pmax) [W]	620	649	679	708
Open-Circuit Voltage (Voc)[V]	54.63	54.63	54.63	54.73	54.73
Maximum Power Voltage (Vmp) [V]	44.83	44.83	44.83	44.93	44.93
Short-Circuit Current (Isc)[A]	14.50	15.19	15.88	16.57	17.26
Maximum Power Current (Imp) [A]	13.84	14.48	15.15	15.77	16.43

## Temperature coefficients

Temperature coefficient of Isc	+0.045%/°C
Temperature coefficient of Voc	-0.260%/°C
Temperature coefficient of Pmax	-0.290%/°C
NMOT	45±2°C

## Engineering Design



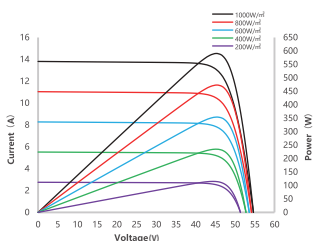
## Mechanical Characteristics

Cell Type	N-Type
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	Anodized Aluminum Alloy
Output Cables	4mm <sup>2</sup> (IEC),12AWG(UL), 300mm (including connector) or 1200mm(including connector)
Junction Box	IP68 Rated, 3 diodes
Connector	MC4-EVO2 or MC4 Compatible
Packaging	36 Pieces/Pallet, 720 pieces/40' container

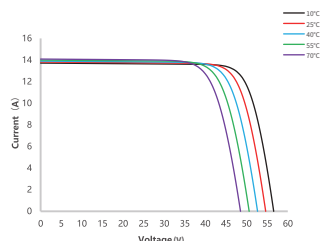
Frame color and cable length are subject to the actual order

## Characteristics

I-V/P-V Curve at Different Irradiation  
SS8-72HD-590N



I-V Curve at Different Temperature  
SS8-72HD-590N



## Operating Conditions

Maximum System Voltage	1500V DC(IEC)
Power Tolerance	0~+3%
Operating Temperature	-40°C~+85°C
Maximum Series Fuse Rating	30A
Mechanical Load Front Rear	5400Pa
Mechanical Load Back Rear	2400Pa
Bifaciality	80±10%

