



Lumina II



Super Power Output

SolarSpace advanced TOPCon 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% 1st 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 58.75GW+ capacity of solar cell and 5.7GW capacity of solar module in China and overseas.

*Please refer to SolarSpace for details

SS8-72HD

570-590N

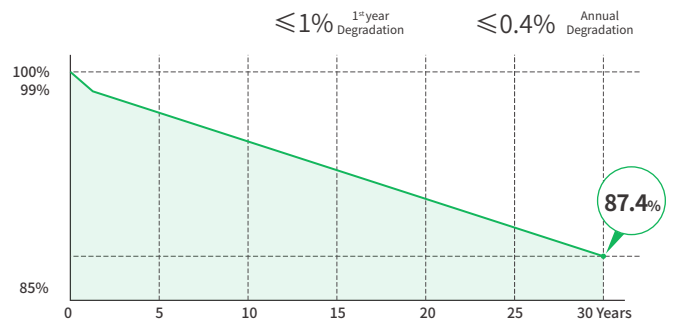
N-TOPCon Bifacial Dual Glass Module

590W

Maximum Power Output

22.84%

Maximum Module Efficiency



12Years 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 -570N	SS8-72HD -575N	SS8-72HD -580N	SS8-72HD -585N	SS8-72HD -590N
Maximum Power (Pmax) [W]	570	575	580	585	590
Open-Circuit Voltage (Voc)[V]	51.08	51.28	51.48	51.68	51.88
Maximum Power Voltage (Vmp) [V]	42.29	42.44	42.59	42.77	42.92
Short-Circuit Current (Isc)[A]	14.24	14.30	14.36	14.42	14.48
Maximum Power Current (Imp) [A]	13.48	13.55	13.62	13.68	13.75
Module Efficiency	22.07%	22.26%	22.45%	22.65%	22.84%

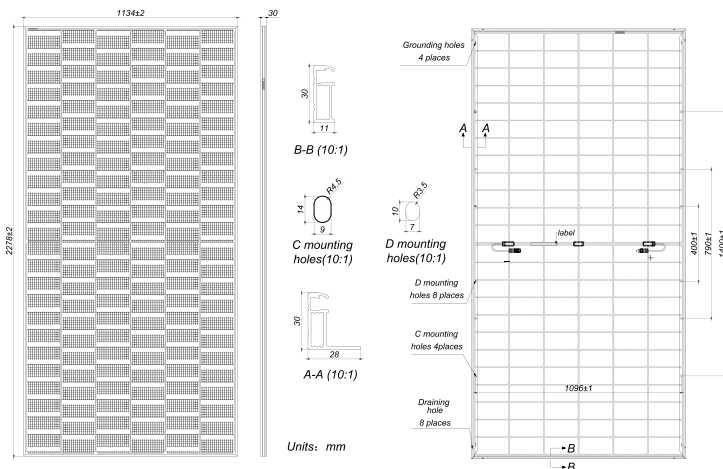
Irradiation 1000W/m², Cell Temperature 25°C, AM=1.5

Electric Characteristics (NMOT)

Module Type	SS8-72HD -570N	SS8-72HD -575N	SS8-72HD -580N	SS8-72HD -585N	SS8-72HD -590N
Maximum Power (Pmax) [W]	429	433	437	441	445
Open-Circuit Voltage (Voc)[V]	48.51	48.70	48.89	49.08	49.27
Maximum Power Voltage (Vmp) [V]	39.62	39.73	39.84	39.95	40.06
Short-Circuit Current (Isc)[A]	11.50	11.55	11.59	11.64	11.69
Maximum Power Current (Imp) [A]	10.83	10.90	10.97	11.04	11.11

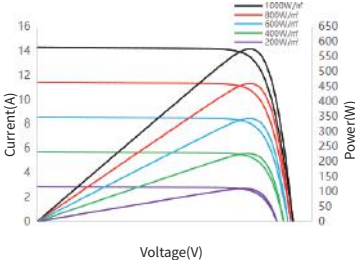
Irradiance 800 W/m², Ambient Temperature 20 °C, Wind Speed 1 m/s, AM=1.5

Engineering Design

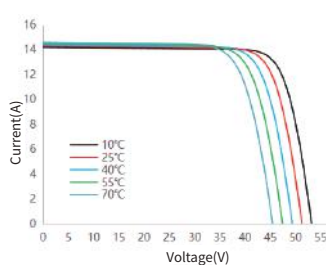


Characteristics

I-V/P-V Curve at Different Irradiation
SS8-72HD-575N



I-V Curve at Different Temperature
SS8-72HD-575N



Bifacial Output-Rearside Power Gain (575 W)

Power Gain	5%	10%	15%	20%	25%
Maximum Power (Pmax) [W]	604	633	662	690	719
Open-Circuit Voltage (Voc)[V]	51.20	51.20	51.20	51.30	51.30
Maximum Power Voltage (Vmp) [V]	42.82	42.82	42.82	42.83	42.83
Short-Circuit Current (Isc)[A]	14.74	15.30	15.84	16.41	16.97
Maximum Power Current (Imp) [A]	14.11	14.78	15.46	16.12	16.79

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

Mechanical Characteristics

Cell Type	N-TOPCon(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 ² (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

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%

