



# Lumina II



## High Power Output

SolarSpace advanced TOPCon cells combined with MBB and high-density encapsulation provides ultrahigh 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 58.75GW capacity of solar cell and 5.7GW capacity of solar module in China and overseas.

\*Please refer to SolarSpace for details

## SS8-60HD

## 465-485N

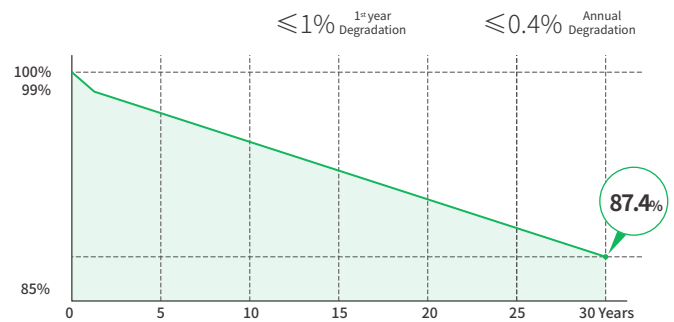
N-TOPCon Bifacial Dual Glass Module

# 485W

Maximum Power Output

# 22.40%

Maximum Module Efficiency



**12**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	SS8-60HD -465N	SS8-60HD -470N	SS8-60HD -475N	SS8-60HD -480N	SS8-60HD -485N
Maximum Power (Pmax) [W]	465	470	475	480	485
Open-Circuit Voltage (Voc)[V]	42.19	42.35	42.51	42.68	42.85
Maximum Power Voltage (Vmp) [V]	34.86	35.03	35.19	35.35	35.51
Short-Circuit Current (Isc)[A]	14.08	14.16	14.24	14.32	14.40
Maximum Power Current (Imp) [A]	13.34	13.42	13.50	13.58	13.66
Module Efficiency	21.48%	21.71%	21.94%	22.17%	22.40%

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

## Bifacial Output-Rearside Power Gain <sup>(470W)</sup>

Power Gain	5%	10%	15%	20%	25%
Maximum Power (Pmax) [W]	494	517	541	564	588
Open-Circuit Voltage (Voc)[V]	42.36	43.38	44.40	44.42	44.44
Maximum Power Voltage (Vmp) [V]	35.34	35.34	35.34	35.35	35.35
Short-Circuit Current (Isc)[A]	14.60	15.15	15.68	16.25	16.80
Maximum Power Current (Imp) [A]	13.98	14.63	15.31	15.96	16.64

## Electric Characteristics (NMOT)

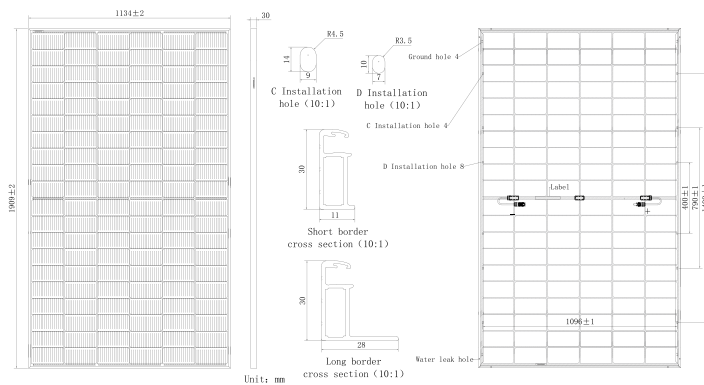
Module Type	SS8-60HD -465N	SS8-60HD -470N	SS8-60HD -475N	SS8-60HD -480N	SS8-60HD -485N
Maximum Power (Pmax) [W]	350	353	357	361	365
Open-Circuit Voltage (Voc)[V]	40.10	40.25	40.41	40.57	40.73
Maximum Power Voltage (Vmp) [V]	32.78	32.93	33.10	33.28	33.46
Short-Circuit Current (Isc)[A]	11.36	11.42	11.49	11.55	11.62
Maximum Power Current (Imp) [A]	10.68	10.73	10.79	10.85	10.91

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

## 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

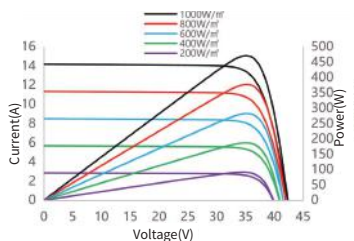


## Mechanical Characteristics

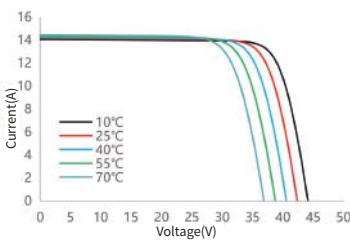
Cell Type	N-TOPCon
Number of Cells	120(6x20)
Dimensions	1909X1134X30mm
Weight	25.0kg
Glass	Front glass, 2.0mm coated semi-tempered glass Back Glass, 2.0mm glazed semi-tempered glass
Frame	Anodized Aluminum Alloy
Output Cables	4mm <sup>2</sup> (IEC),12AWG(UL) 300mm(including connector) or Customized Length
Junction Box	IP68 Rated, 3 diodes
Connector	MC4-EVO2 or MC4 Compatible
Packaging	36 Pieces/Pallet, 864 pieces/40' container

## Characteristics

I-V/P-V Curve at Different Irradiation  
SS8-60HD-470N



I-V Curve at Different Temperature  
SS8-60HD-470N



## 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%

