



# 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% 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

**SSA-60HD**

**540-560N**

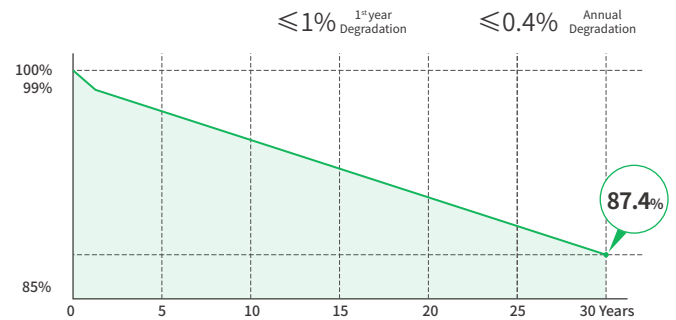
N-TOPCon Bifacial Dual Glass Module

**560W**

Maximum Power Output

**22.74%**

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	SSA-60HD -540N	SSA-60HD -545N	SSA-60HD -550N	SSA-60HD -555N	SSA-60HD -560N
Maximum Power (Pmax) [W]	540	545	550	555	560
Open-Circuit Voltage (Voc)[V]	43.48	43.68	43.88	44.08	44.28
Maximum Power Voltage (Vmp) [V]	36.30	36.47	36.64	36.81	36.98
Short-Circuit Current (Isc)[A]	15.83	15.89	15.95	16.01	16.07
Maximum Power Current (Imp) [A]	14.88	14.95	15.02	15.08	15.15
Module Efficiency	21.92%	22.13%	22.33%	22.53%	22.74%

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

## Electric Characteristics (NMOT)

Module Type	SSA-60HD -540N	SSA-60HD -545N	SSA-60HD -550N	SSA-60HD -555N	SSA-60HD -560N
Maximum Power (Pmax) [W]	408	412	416	420	424
Open-Circuit Voltage (Voc)[V]	41.33	41.52	41.71	41.90	42.09
Maximum Power Voltage (Vmp) [V]	34.01	34.20	34.39	34.58	34.77
Short-Circuit Current (Isc)[A]	12.78	12.84	12.90	12.96	13.02
Maximum Power Current (Imp) [A]	12.00	12.05	12.10	12.15	12.2

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

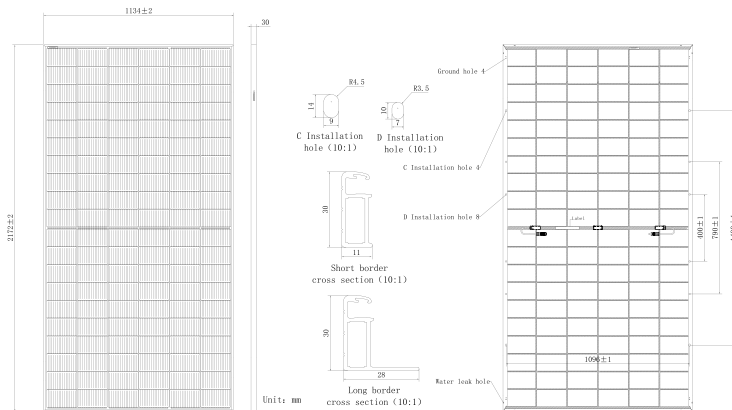
## Bifacial Output-Rearside Power Gain (550W)

Power Gain	5%	10%	15%	20%	25%
Maximum Power (Pmax) [W]	578	605	633	660	688
Open-Circuit Voltage (Voc)[V]	43.88	43.88	43.88	43.98	43.98
Maximum Power Voltage (Vmp) [V]	36.64	36.64	36.64	36.74	36.74
Short-Circuit Current (Isc)[A]	16.75	17.55	18.34	19.14	19.94
Maximum Power Current (Imp) [A]	15.78	16.52	17.28	17.97	18.73

## 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

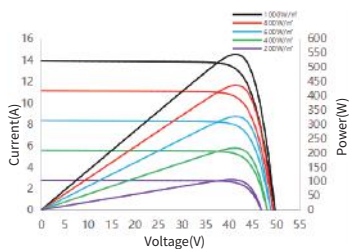


## Mechanical Characteristics

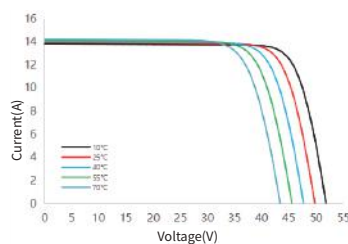
Cell Type	N-TOPCon
Number of Cells	120(6x20)
Dimensions	2172X1134X30mm
Weight	30.0kg
Glass	Front glass, 2.0mm coated semi-tempered glass Back Glass, 2.0mm glazed semi-tempered glass
Frame	Anodized Aluminum Alloy
Output Cables	4mm <sup>2</sup> (IEC), 12AWG(UL), 300mm(including connector) or Customized Length
Junction Box	IP68 Rated, 3 diodes
Connector	MC4-EVO2 or MC4 Compatible
Packaging	36 Pieces/Pallet, 720 pieces/40' container

## Characteristics

I-V/P-V Curve at Different Irradiation  
SSA-60HD-550N



I-V Curve at Different Temperature  
SSA-60HD-550N



## 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%

