



# 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

**SS9-30HD**

**295-310N**

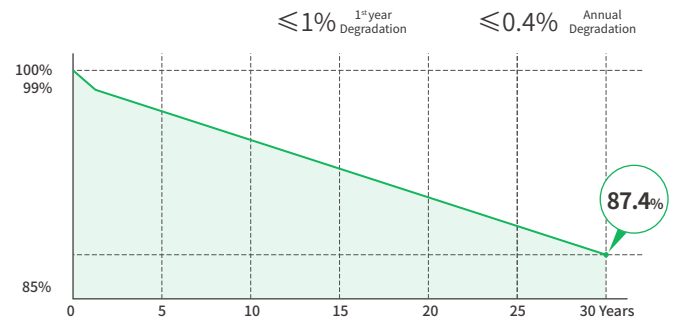
N-TOPCon Bifacial Dual Glass Module

**310W**

Maximum Power Output

**21.22%**

Maximum Module Efficiency



**15**Years Product Warranty **30**Years Linear Power Warranty

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

Module Type	SS9-30HD-295N	SS9-30HD-300N	SS9-30HD-305N	SS9-30HD-310N
Maximum Power (Pmax) [W]	295	300	305	310
Open-Circuit Voltage (Voc)[V]	41.48	41.70	41.92	42.14
Maximum Power Voltage (Vmp) [V]	34.21	34.44	34.67	34.90
Short-Circuit Current (Isc)[A]	9.17	9.27	9.37	9.47
Maximum Power Current (Imp) [A]	8.63	8.71	8.80	8.89
Module Efficiency	20.19%	20.54%	20.88%	21.22%
Power Tolerance		0~+3%		
Temperature coefficient of Isc		+0.045%/		
Temperature coefficient of Voc		-0.260%/		
Temperature coefficient of Pmax		-0.290%/		

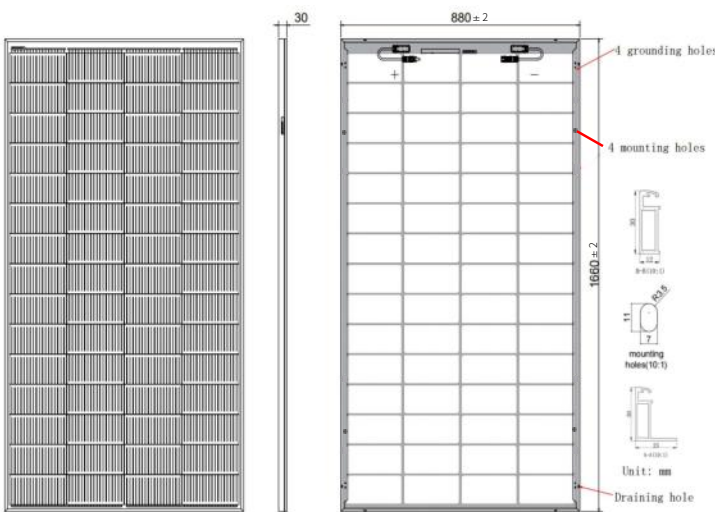
**Mechanical Characteristics**

Cell Type	N-TOPCon (G12)
Number of Cells	60(4x15) half cell
Dimensions	1660±2 x 880±2 x 30±1mm
Weight	19kg±3%
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, 2 diodes
Connector	MC4-EVO2 or MC4 Compatible
Packaging	36 Pieces/Pallet, 1008 pieces/40' container

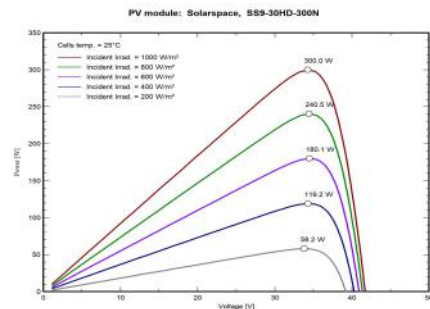
**Operating Conditions**

Maximum System Voltage	1500V DC
Operating Temperature	-40°C~+85°C
Maximum Series Fuse Rating	30A
Mechanical Load Front Rear	5400Pa(112lb/ft <sup>2</sup> )
Mechanical Load Back Rear	2400Pa (50lb/ft <sup>2</sup> )
Nominal operating cell temperature	45±2°C
Safety Class	Class II
Bifaciality	80±5%

**Engineering Design**



P-V Curve at Different Irradiation



I-V Curve at Different Irradiation

