



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% 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 50GW+ capacity of solar cell and 5.7GW capacity of solar module in China and overseas.

*Please refer to SolarSpace for details

SS8-60HD

470-490N

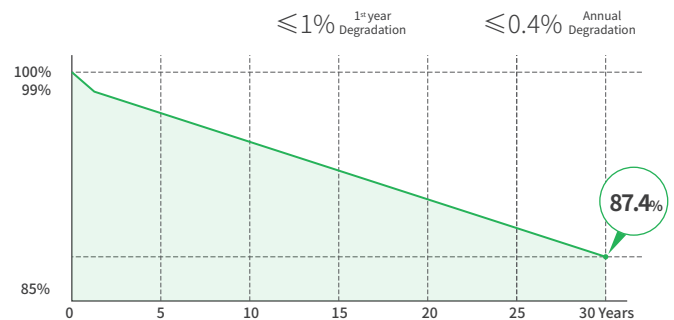
N-TOPCon Bifacial Dual Glass Module

490W

Maximum Power Output

22.63%

Maximum Module Efficiency



15Years 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 -470N	SS8-60HD -475N	SS8-60HD -480N	SS8-60HD -485N	SS8-60HD -490N
Maximum Power (Pmax) [W]	470	475	480	485	490
Open-Circuit Voltage (Voc)[V]	42.35	42.51	42.68	42.85	43.02
Maximum Power Voltage (Vmp) [V]	35.03	35.19	35.35	35.51	35.67
Short-Circuit Current (Isc)[A]	14.16	14.24	14.32	14.40	14.48
Maximum Power Current (Imp) [A]	13.42	13.50	13.58	13.66	13.74
Module Efficiency	21.71%	21.94%	22.17%	22.40%	22.63%

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

Bifacial Output-Rearside Power Gain (470W)

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)

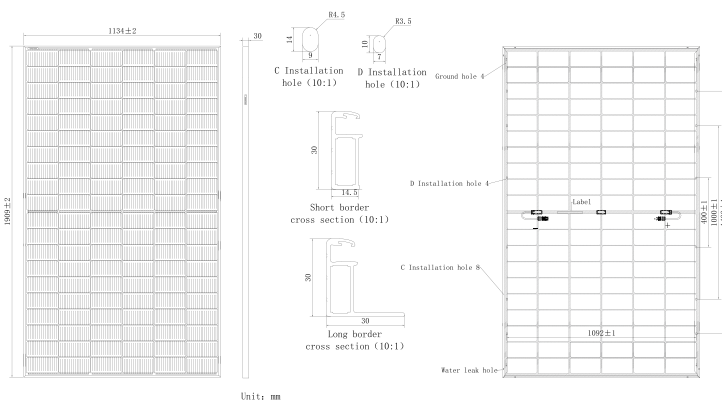
Module Type	SS8-60HD -470N	SS8-60HD -475N	SS8-60HD -480N	SS8-60HD -485N	SS8-60HD -490N
Maximum Power (Pmax) [W]	353	357	361	365	369
Open-Circuit Voltage (Voc)[V]	40.25	40.41	40.57	40.73	40.89
Maximum Power Voltage (Vmp) [V]	32.93	33.10	33.28	33.46	33.64
Short-Circuit Current (Isc)[A]	11.42	11.49	11.55	11.62	11.69
Maximum Power Current (Imp) [A]	10.73	10.79	10.85	10.91	10.97

Irradiance 800 W/m², 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

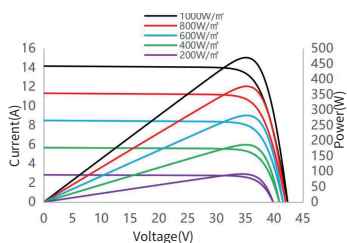


Mechanical Characteristics

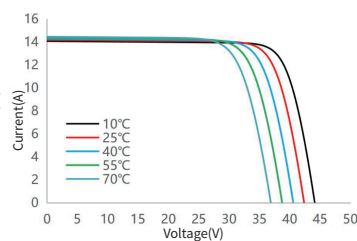
Cell Type	N-TOPCon
Number of Cells	120(6x20)
Dimensions	1909X1134X30mm
Weight	25.5kg
Glass	Front glass, 2.0mm coated semi-tempered glass Back Glass, 2.0mm glazed semi-tempered glass
Frame	Anodized Aluminum Alloy
Output Cables	4mm ² (IEC), 12AWG(UL) 300mm(including connector) or Customized Length
Junction 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 ± 5%

