

Lumina II



High Power Output

With 210 large wafer technology and slicing technology, multi-grid technology, high-density module packaging to ensure higher power output of modules



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 60GW+ capacity of solar cell and 7.2GW capacity of solar module in China and overseas.

*Please refer to SolarSpace for details

SS9-60HD

625-650N

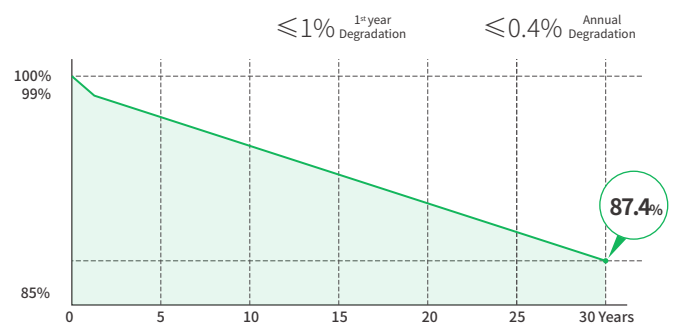
N-Type Bifacial Dual Glass Module

650W

Maximum
Power Output

22.97%

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	SS9-60HD -625N	SS9-60HD -630N	SS9-60HD -635N	SS9-60HD -640N	SS9-60HD -645N	SS9-60HD -650N
Maximum Power (Pmax) [W]	625	630	635	640	645	650
Open-Circuit Voltage (Voc)[V]	43.47	43.69	43.91	44.13	44.35	44.57
Maximum Power Voltage (Vmp) [V]	36.38	36.58	36.79	37.00	37.21	37.42
Short-Circuit Current (Isc)[A]	18.21	18.25	18.29	18.33	18.37	18.41
Maximum Power Current (Imp) [A]	17.18	17.23	17.27	17.31	17.35	17.39
Module Efficiency	22.08%	22.26%	22.44%	22.61%	22.79%	22.97%

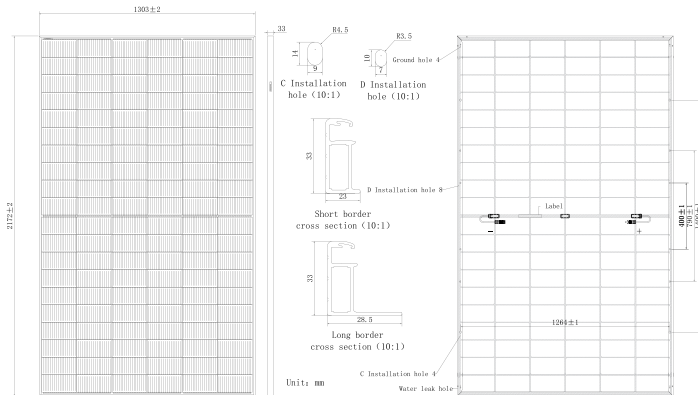
Irradiation 1000W/m², Cell Temperature 25°C, AM=1.5

Electric Characteristics (NMOT)

Module Type	SS9-60HD -625N	SS9-60HD -630N	SS9-60HD -635N	SS9-60HD -640N	SS9-60HD -645N	SS9-60HD -650N
Maximum Power (Pmax) [W]	476	480	484	488	492	496
Open-Circuit Voltage (Voc)[V]	41.18	41.35	41.54	41.73	41.92	42.11
Maximum Power Voltage (Vmp) [V]	34.22	34.44	34.65	34.86	35.07	35.28
Short-Circuit Current (Isc)[A]	14.65	14.71	14.75	14.79	14.83	14.87
Maximum Power Current (Imp) [A]	13.91	13.94	13.97	14.00	14.03	14.06

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

Engineering Design



Bifacial Output-Rearside Power Gain

Power Gain	5%	10%	15%	20%	25%
Maximum Power (Pmax) [W]	667	699	730	764	796
Open-Circuit Voltage (Voc)[V]	43.91	43.91	43.91	44.01	44.01
Maximum Power Voltage (Vmp) [V]	36.79	36.79	36.79	36.89	36.89
Short-Circuit Current (Isc)[A]	19.20	20.12	21.03	21.95	22.86
Maximum Power Current (Imp) [A]	18.13	19.00	19.86	20.72	21.59

Temperature coefficients

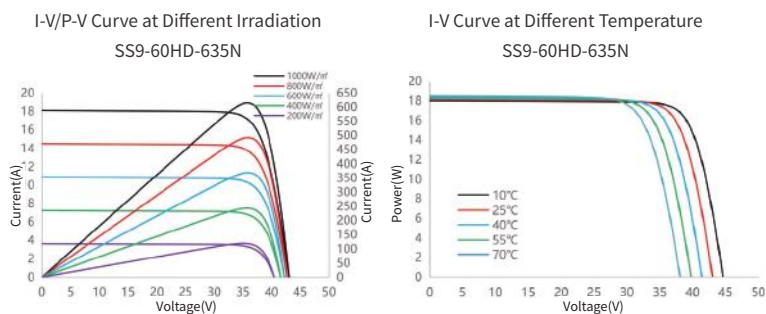
Temperature coefficient of Isc	+0.045%/°C
Temperature coefficient of Voc	-0.260%/°C
Temperature coefficient of Pmax	-0.290%/°C
NMOT	45±2°C

Mechanical Characteristics

Cell Type	N-Type
Number of Cells	120(6x20)
Dimensions	2172X1303X33mm
Weight	34.5kg
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)
Junction Box	IP68 Rated, 3 diodes
Connector	MC4-EVO2 or MC4 Compatible
Packaging	33 Pieces/Pallet, 594 pieces/40' container

Frame color and cable length are subject to the actual order

Characteristics



Operating Conditions

Maximum System Voltage	1500V DC (IEC)
Power Tolerance	0~+3%
Operating Temperature	-40°C~+85°C
Maximum Series Fuse Rating	35A
Mechanical Load Front Rear	5400Pa
Mechanical Load Back Rear	2400Pa
Bifaciality	80±10%