Lumina II

SS8-66HD 520-540N

N-TOPCon Bifacial Dual Glass Module

High Power Output
SolarSpace advanced TOPCon cells combined with MBB and high-density encapsulation provides ultrahigh power output

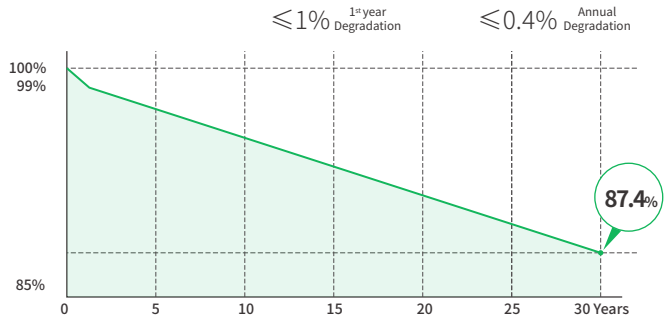
High Reliability
Excellent harsh tests results and advanced half-cell tech improve product reliability for long-term life cycle

Extra power generation
N-type wafers and cells bring ultralow LID&LeTID degradation, less than 1% 1st year degradation guaranteed, in addition lower temperature coeffi-cient and better weak-light response provide extra power generation

High ROI
Bifacial power generation reduces BOS and system LCOE dramatically, promoting the project ROI

540W
Maximum
Power Output

22.74%
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

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

Electric Characteristics(STC)

Module Type	SS8-66HDT -520N	SS8-66HDT -525N	SS8-66HDT -530N	SS8-66HDT -535N	SS8-66HDT -540N
Maximum Power (Pmax) [W]	520	525	530	535	540
Open-Circuit Voltage (Voc)[V]	47.01	47.19	47.37	47.55	47.73
Maximum Power Voltage (Vmp) [V]	38.47	38.64	38.81	38.98	39.15
Short-Circuit Current (Isc)[A]	14.18	14.25	14.32	14.39	14.46
Maximum Power Current (Imp) [A]	13.52	13.59	13.66	13.73	13.80
Module Efficiency	21.90%	22.11%	22.32%	22.53%	22.74%

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

Bifacial Output-Rearside Power Gain (520W)

Power Gain	5%	10%	15%	20%	25%
Maximum Power (Pmax) [W]	546	572	598	624	650
Open-Circuit Voltage (Voc)[V]	47.01	47.01	47.01	47.11	47.11
Maximum Power Voltage (Vmp) [V]	38.92	38.92	38.92	38.92	39.02
Short-Circuit Current (Isc)[A]	14.74	15.28	15.81	16.35	16.89
Maximum Power Current (Imp) [A]	14.03	14.7	15.37	16.04	16.71

Electric Characteristics (NMOT)

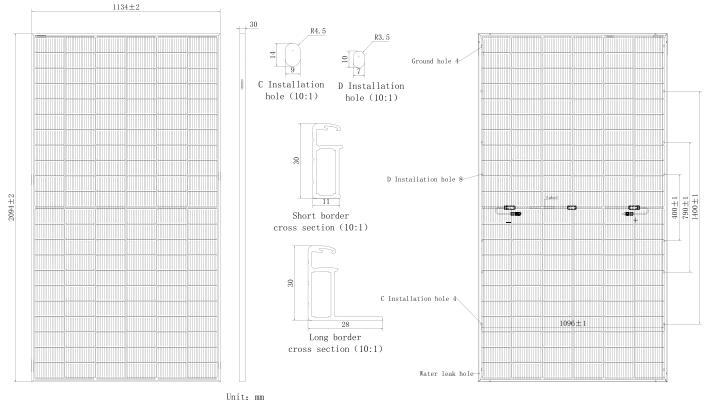
Module Type	SS8-66HDT -520N	SS8-66HDT -525N	SS8-66HDT -530N	SS8-66HDT -535N	SS8-66HDT -540N
Maximum Power (Pmax) [W]	392	396	400	404	408
Open-Circuit Voltage (Voc)[V]	44.64	44.82	44.99	45.17	45.34
Maximum Power Voltage (Vmp) [V]	36.00	36.14	36.27	36.40	36.53
Short-Circuit Current (Isc)[A]	11.63	11.71	11.79	11.87	11.95
Maximum Power Current (Imp) [A]	10.89	10.96	10.03	11.10	11.17

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



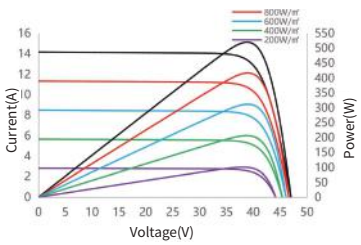
Mechanical Characteristics

Cell Type	N-TOPCon
Number of Cells	132(6x22)
Dimensions	2094X1134X30mm
Weight	29.2kg
Glass	Front glass, 2.0mm coated semi-tempered glass
	Back Glass, 2.0mm glazed semi-tempered glass
Frame	Anodized Aluminum Alloy
Output Cables	4mm²(IEC),12AWG(UL) 300mm(including connector)
Junction Box	IP68 Rated, 3 diodes
Connector	MC4-EVO2 or MC4 Compatible
Packaging	36 Pieces/Pallet, 792 pieces/40' container

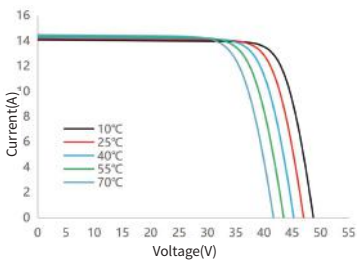
Frame color and cable length are subject to the actual order

Characteristics

I-V/P-V Curve at Different Irradiation
SS8-66HDT-520N



I-V Curve at Different Temperature
SS8-66HDT-520N



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%