

Lumina II



Super Power Output

SolarSpace advanced N-Type 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% 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 55GW+ capacity of solar cell and ~8GW capacity of solar module in China and overseas.

*Please refer to SolarSpace for details

SSA-54HD 490-515N

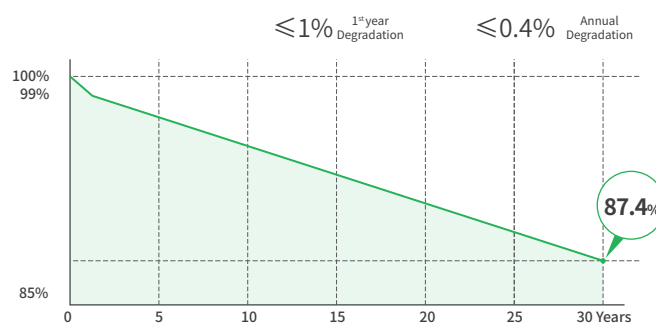
N-Type Bifacial Dual Glass Module

515W

Maximum
Power Output

23.16%

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



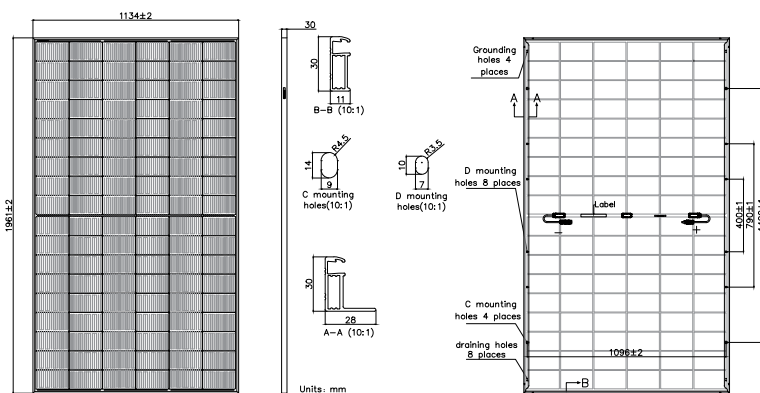
Electric Characteristics (STC)

Module Type	SSA-54HD	SSA-54HD	SSA-54HD	SSA-54HD	SSA-54HD	SSA-54HD
	-490N	-495N	-500N	-505N	-510N	-515N
Maximum Power (Pmax) [W]	490	495	500	505	510	515
Open-Circuit Voltage (Voc) [V]	39.72	39.92	40.12	40.32	40.52	40.72
Maximum Power Voltage (Vmp) [V]	32.92	33.12	33.32	33.52	33.72	33.92
Short-Circuit Current (Isc) [A]	15.79	15.82	15.85	15.88	15.91	15.94
Maximum Power Current (Imp) [A]	14.90	14.96	15.02	15.08	15.14	15.20
Module Efficiency	22.03%	22.26%	22.48%	22.71%	22.93%	23.16%
Irradiation 1000W/m², Cell Temperature 25°C, AM=1.5						

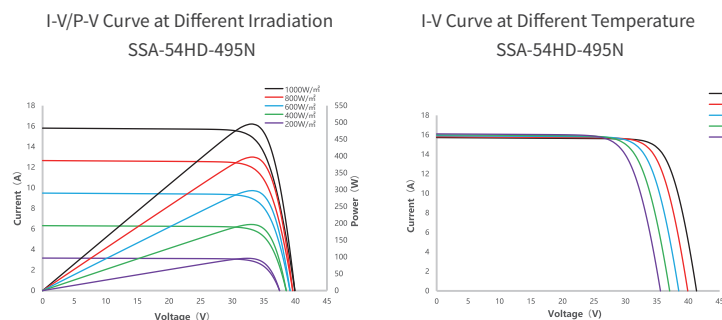
Electric Characteristics (BNPI)

Module Type	SSA-54HD	SSA-54HD	SSA-54HD	SSA-54HD	SSA-54HD	SSA-54HD
	-490N	-495N	-500N	-505N	-510N	-510N
Maximum Power (Pmax) [W]	545	550	555	560	565	570
Open-Circuit Voltage (Voc) [V]	39.72	39.92	40.12	40.32	40.52	40.72
Maximum Power Voltage (Vmp) [V]	32.92	33.12	33.32	33.52	33.72	33.92
Short-Circuit Current (Isc) [A]	17.62	17.65	17.68	17.71	17.74	17.77
Maximum Power Current (Imp) [A]	16.68	16.73	16.78	16.83	16.88	16.93
Irradiance Front: 1000 W/m² Rear:135 W/m² · Cell Temperature 25 °C. AM=1.5						

Engineering Design



Characteristics



Bifacial Output-Rearside Power Gain (495W)

Power Gain	5%	10%	15%	20%	25%
Maximum Power (Pmax) [W]	519	544	569	594	619
Open-Circuit Voltage (Voc) [V]	39.92	39.92	39.92	40.02	40.02
Maximum Power Voltage (Vmp) [V]	33.12	33.12	33.12	33.22	33.22
Short-Circuit Current (Isc) [A]	16.55	17.33	18.14	18.87	19.70
Maximum Power Current (Imp) [A]	15.69	16.44	17.18	17.89	18.64

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	108 (6x18)
Dimensions	1961X1134X30mm
Weight	26.5kg
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), 300mm (including connector)
Junction Box	IP68 Rated, 3 diodes
Connector	PC-SS01 / PC-SS02 / MC4-EVO2 / MC4-EVO2A
Packaging	36 Pieces / Pallet, 864 Pieces / 40' HQ Container
Frame color and cable length are subject to the actual order	

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%