

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 60GW+ capacity of solar cell and ~10GW capacity of solar module in China and overseas.

*Please refer to SolarSpace for details

SSA-54HD 490-515N

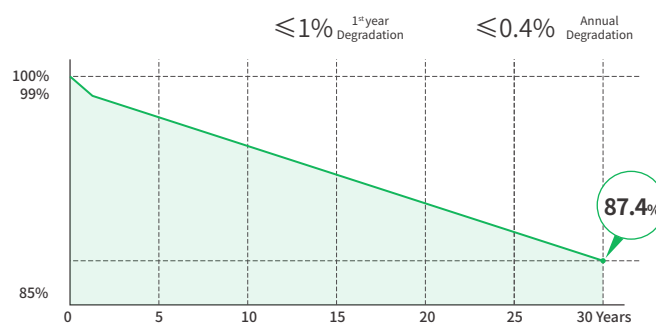
N-Type Bifacial Dual Glass Module

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 -490N	SSA-54HD -495N	SSA-54HD -500N	SSA-54HD -505N	SSA-54HD -510N	SSA-54HD -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 (NMOT)

Module Type	SSA-54HD -490N	SSA-54HD -495N	SSA-54HD -500N	SSA-54HD -505N	SSA-54HD -510N	SSA-54HD -515N
Maximum Power (Pmax) [W]	374	378	382	386	390	394
Open-Circuit Voltage (Voc) [V]	38.07	38.15	38.23	38.31	38.39	38.47
Maximum Power Voltage (Vmp) [V]	31.00	31.27	31.54	31.81	32.08	32.35
Short-Circuit Current (Isc) [A]	12.75	12.77	12.79	12.81	12.83	12.85
Maximum Power Current (Imp) [A]	12.08	12.11	12.14	12.16	12.18	12.20

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

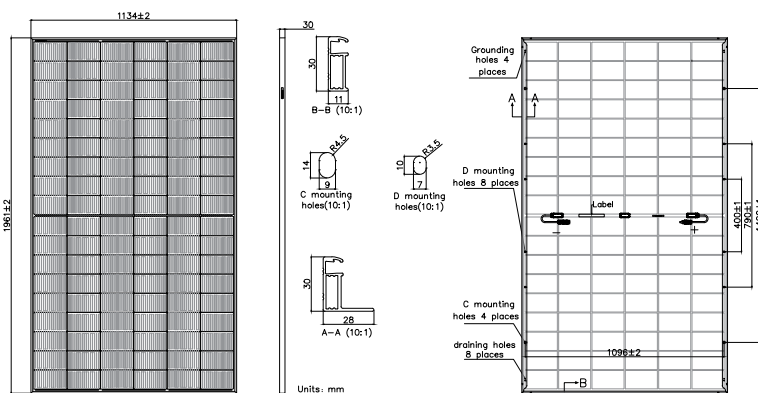
Bifacial Output-Rearside Power Gain (495W)

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

Engineering Design

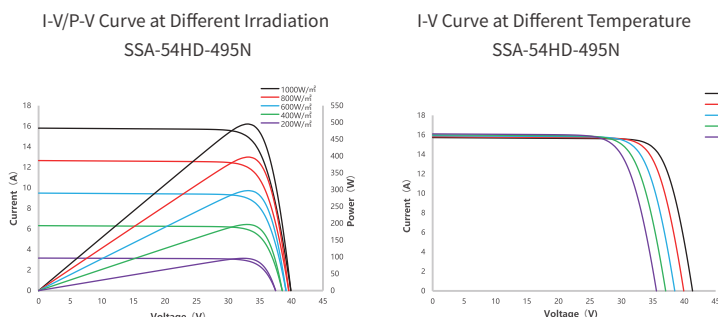


Mechanical Characteristics

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	4mm ² (IEC), 12AWG (UL), 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' 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	30A
Mechanical Load Front Rear	5400Pa
Mechanical Load Back Rear	2400Pa
Bifaciality	80±10%



SolarSpace Technology Co., Ltd.

Specifications included in this datasheet are subject to change without notice. SolarSpace reserves the right of final interpretation.

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