

Lumina I



High Power Output

Solarspace efficient cells with MBB and high-density encapsulation ensures higher power output



High Reliability

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



More Power Generation

Gallium doped wafers reduce annual power degradation, optimized circuit design ensures more power generation under shading



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 58.75GW+ capacity of solar cell and 5.7GW capacity of solar module in China and overseas.

*Please refer to SolarSpace for details

SS8-54HD

395-415M

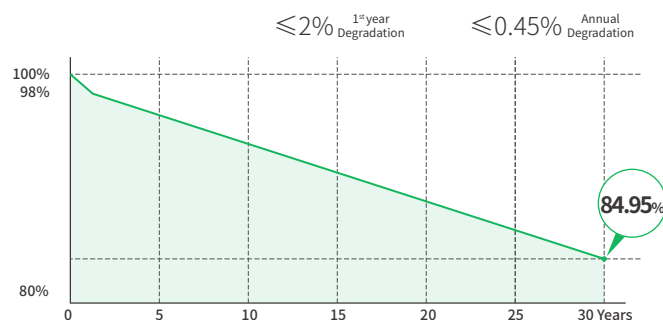
Bifacial Dual Glass Module

415W

Maximum
Power Output

21.25%

Maximum
Module Efficiency



12Years 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	SS8-54HD -395M	SS8-54HD -400M	SS8-54HD -405M	SS8-54HD -410M	SS8-54HD -415M
Maximum Power (Pmax) [W]	395	400	405	410	415
Open-Circuit Voltage (Voc)[V]	36.98	37.07	37.23	37.32	37.45
Maximum Power Voltage (Vmp) [V]	30.84	31.01	31.21	31.45	31.61
Short-Circuit Current (Isc)[A]	13.70	13.79	13.87	13.95	14.02
Maximum Power Current (Imp) [A]	12.81	12.90	12.98	13.04	13.13
Module Efficiency	20.23%	20.48%	20.74%	21.00%	21.25%

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

Electric Characteristics (NMOT)

Module Type	SS8-54HD -395M	SS8-54HD -400M	SS8-54HD -405M	SS8-54HD -410M	SS8-54HD -415M
Maximum Power (Pmax) [W]	298	302	306	310	314
Open-Circuit Voltage (Voc)[V]	34.75	34.88	35.12	35.23	35.37
Maximum Power Voltage (Vmp) [V]	29.08	29.27	29.49	29.72	29.89
Short-Circuit Current (Isc)[A]	10.96	11.03	11.10	11.16	11.22
Maximum Power Current (Imp) [A]	10.25	10.32	10.38	10.44	10.51

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

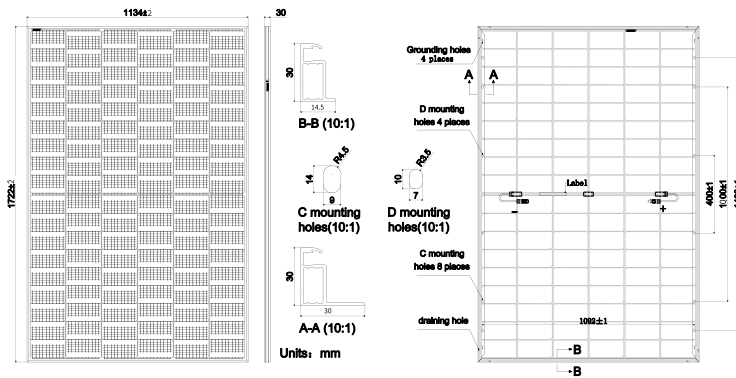
Bifacial Output-Rearside Power Gain (410 W)

Power Gain	5%	10%	15%	20%	25%
Maximum Power (Pmax) [W]	431	451	472	492	513
Open-Circuit Voltage (Voc)[V]	37.33	37.33	37.33	37.34	38.34
Maximum Power Voltage (Vmp) [V]	31.46	31.46	31.46	31.47	31.47
Short-Circuit Current (Isc)[A]	14.62	15.32	16.02	16.72	17.41
Maximum Power Current (Imp) [A]	13.71	14.35	15.01	15.65	16.31

Temperature coefficients

Temperature coefficient of Isc	+0.045%/°C
Temperature coefficient of Voc	-0.265%/°C
Temperature coefficient of Pmax	-0.334%/°C
NMOT	45±2°C

Engineering Design



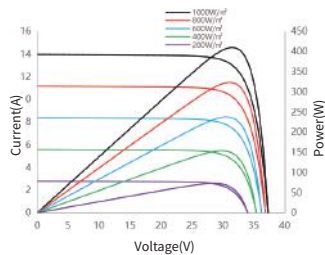
Mechanical Characteristics

Cell Type	Mono PERC (M10)
Number of Cells	108(6x18)
Dimensions	1722X1134X30mm
Weight	24.0kg
Glass	Front Glass, 2.0mm AR 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 1000mm(including connector)
Junction Box	IP68 Rated, 3 diodes
Connector	MC4-EVO2 or MC4 Compatible
Packaging	36 Pieces/Pallet, 936 pieces/40' container

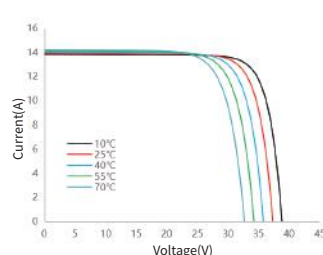
Frame color and cable length are subject to the actual order

Characteristics

I-V/P-V Curve at Different Irradiation
SS8-54HD -410M



I-V Curve at Different Temperature
SS8-54HD -410M



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	70±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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