Lumina I

SS7-72HD 540-560M

Bifacial Dual Glass Module

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

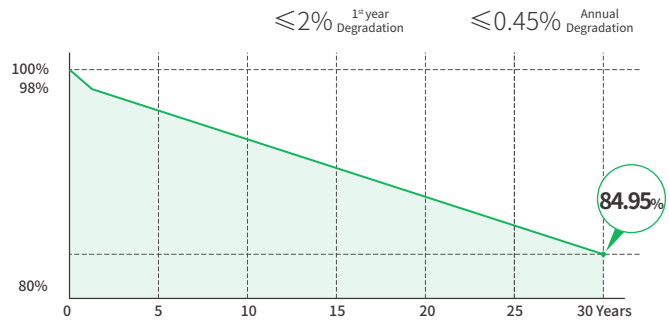
High Reliability
Excellent harsh tests results and advanced half-cell tech improve product reliability for long-term life cycle

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

560W
Maximum
Power Output

21.68%
Maximum
Module Efficiency



15 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	SS7-72HD -540M	SS7-72HD -545M	SS7-72HD -550M	SS7-72HD -555M	SS7-72HD -560M
Maximum Power (Pmax) [W]	540	545	550	555	560
Open-Circuit Voltage (Voc)[V]	49.61	49.76	49.91	50.03	50.15
Maximum Power Voltage (Vmp) [V]	41.65	41.81	41.97	42.15	42.33
Short-Circuit Current (Isc)[A]	13.85	13.92	14.02	14.07	14.14
Maximum Power Current (Imp) [A]	12.97	13.04	13.10	13.17	13.23
Module Efficiency	20.90%	21.10%	21.29%	21.48%	21.68%

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

Bifacial Output-Rearside Power Gain (545W)

Power Gain	5%	10%	15%	20%	25%
Maximum Power (Pmax) [W]	572	600	627	654	681
Open-Circuit Voltage (Voc)[V]	49.77	49.77	49.77	49.87	49.87
Maximum Power Voltage (Vmp) [V]	41.81	41.82	41.82	41.92	41.92
Short-Circuit Current (Isc)[A]	14.59	15.29	15.99	16.68	17.37
Maximum Power Current (Imp) [A]	13.69	14.35	15.01	15.64	16.26

Electric Characteristics（NMOT）

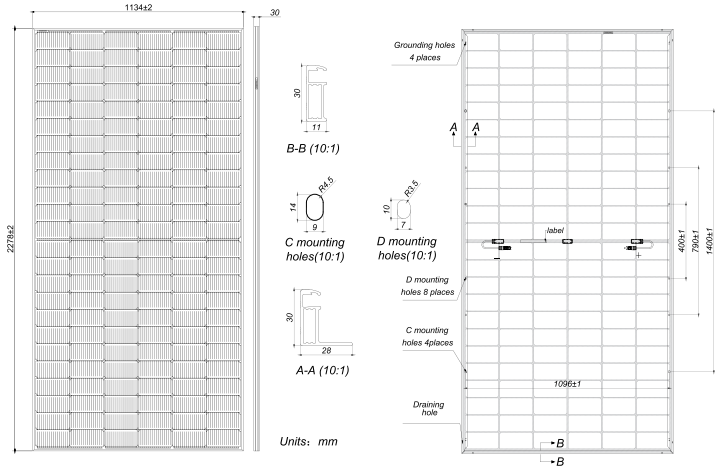
Module Type	SS7-72HD -540M	SS7-72HD -545M	SS7-72HD -550M	SS7-72HD -555M	SS7-72HD -560M
Maximum Power (Pmax) [W]	408	412	416	420	424
Open-Circuit Voltage (Voc)[V]	46.43	46.55	46.68	46.84	46.98
Maximum Power Voltage (Vmp) [V]	39.00	39.21	39.44	39.67	39.89
Short-Circuit Current (Isc)[A]	11.10	11.13	11.18	11.22	11.27
Maximum Power Current (Imp) [A]	10.47	10.51	10.55	10.59	10.63

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	-0.265%/°C
Temperature coefficient of Pmax	-0.334%/°C
NMOT	45±2°C

Engineering Design

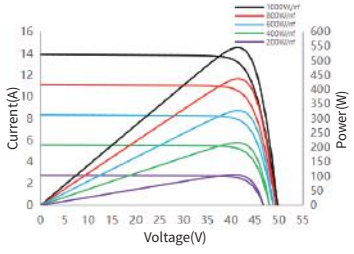


Mechanical Characteristics

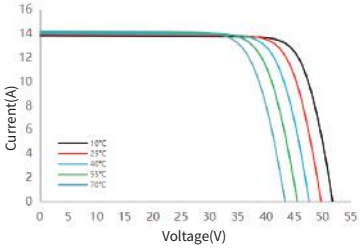
Cell Type	Mono PERC (M10)
Number of Cells	144(6x24)
Dimensions	2278X1134X30mm
Weight	31.2kg
Glass	Front Glass, 2.0mm AR coated semi-tempered glass
	Back Glass, 2.0mm glazed semi-tempered glass
Frame	Silver, Anodized Aluminum Alloy
Output Cables	4mm²(IEC),12AWG(UL), 300mm (including connector) or 1200mm(including connector) Customized Length
Junction Box	IP68 Rated, 3 diodes
Connector	MC4-EVO2 or MC4 Compatible
Packaging	36 Pieces/Pallet, 720 pieces/40’ container

Characteristics

I-V/P-V Curve at Different Irradiation
SS7-72HD-545M



I-V Curve at Different Temperature
SS7-72HD-545M



Operating Conditions

Maximum System Voltage	1500V DC (IEC)
Power Tolerance	0~+3%
Operating Temperature	-40°C~+85°C
Maximum Series Fuse Rating	25A
Mechanical Load Front Rear	5400Pa
Mechanical Load Back Rear	2400Pa
Bifaciality	70±10%