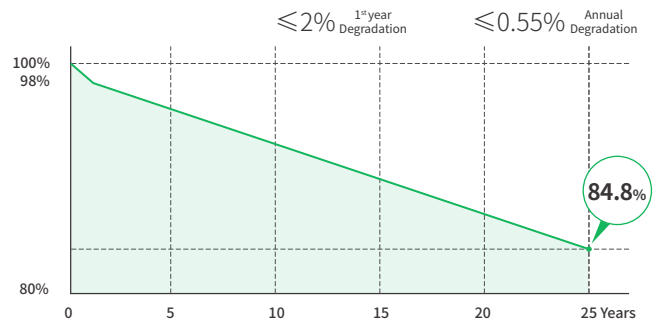
Lumina I

SS8-66HS 490-510M

Mono-Facial Module

510W
Maximum
Power Output

21.48%
Maximum
Module Efficiency



12 Years Product Warranty **25** Years Linear Power Warranty

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

Great Adaptability
Sensible dimension design suitable for all scenarios

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

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	SS8-66HS -490M	SS8-66HS -495M	SS8-66HS -500M	SS8-66HS -505M	SS8-66HS -510M
Maximum Power (Pmax) [W]	490	495	500	505	510
Open-Circuit Voltage (Voc)[V]	45.32	45.46	45.60	45.73	45.87
Maximum Power Voltage (Vmp) [V]	37.52	37.68	37.84	38.01	38.18
Short-Circuit Current (Isc)[A]	13.91	13.99	14.07	14.14	14.21
Maximum Power Current (Imp) [A]	13.06	13.14	13.22	13.29	13.36
Module Efficiency	20.64%	20.85%	21.06%	21.27%	21.48%

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

Temperature coefficients

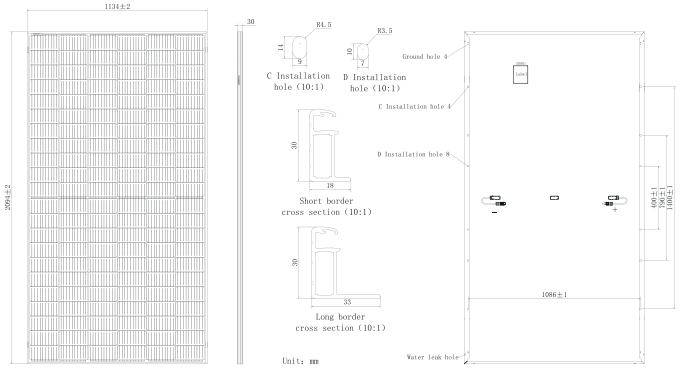
Temperature coefficient of Isc	+0.045%/°C
Temperature coefficient of Voc	-0.265%/°C
Temperature coefficient of Pmax	-0.335%/°C
NMOT	45±2°C

Electric Characteristics（NMOT）

Module Type	SS8-66HS -490M	SS8-66HS -495M	SS8-66HS -500M	SS8-66HS -505M	SS8-66HS -510M
Maximum Power (Pmax) [W]	371	375	379	383	387
Open-Circuit Voltage (Voc)[V]	43.03	43.16	43.29	43.42	43.55
Maximum Power Voltage (Vmp) [V]	35.88	36.03	36.18	36.33	36.48
Short-Circuit Current (Isc)[A]	11.14	11.21	11.28	11.35	11.42
Maximum Power Current (Imp) [A]	10.35	10.41	10.48	10.55	10.61

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

Engineering Design

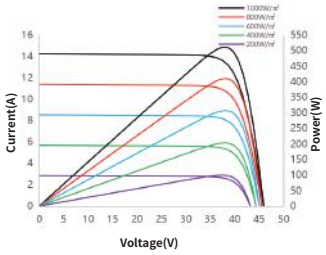


Mechanical Characteristics

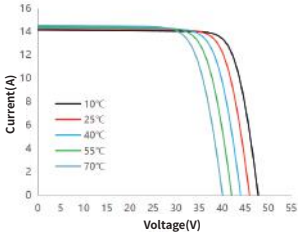
Cell Type	Mono PERC (M10)
Number of Cells	132(6x22)
Dimensions	2094x1134x30mm
Weight	25.0kg
Glass	Single glass, 3.2mm coated tempered glass
Frame	Anodized Aluminum Alloy
Output Cables	4mm²(IEC),12AWG(UL) 300mm (including connector) or Customized Length
Junction Box	IP68 Rated, 3 diodes
Connector	MC4-EVO2 or MC4 Compatible
Packaging	36 Pieces/Pallet, 792 pieces/40’ container

Characteristics

I-V/P-V Curve at Different Irradiation
SS8-66HS -510M



I-V Curve at Different Temperature
SS8-66HS -510M



Operating Conditions

Maximum System Voltage	1500V DC
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