



Lumina I



High Power Output

With 210 large wafer technology and slicing technology, multi-grid technology, high-density module packaging to ensure higher power output of modules



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

Our modules are cost-effective and compatible with mainstream trackers, making them an ideal choice for large power plants

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

SS9-66HS

660-680M

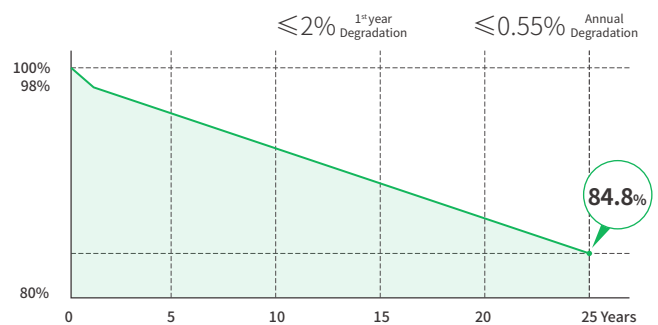
Mono-Facial Module

680W

Maximum Power Output

21.89%

Maximum Module Efficiency



12 Years Product Warranty **25** 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	SS9-66HS -660M	SS9-66HS -665M	SS9-66HS -670M	SS9-66HS -675M	SS9-66HS -680M
Maximum Power (Pmax) [W]	660	665	670	675	680
Open-Circuit Voltage (Voc)[V]	45.73	45.93	46.13	46.33	46.53
Maximum Power Voltage (Vmp) [V]	38.10	38.28	38.46	38.64	38.82
Short-Circuit Current (Isc)[A]	18.34	18.39	18.44	18.49	18.54
Maximum Power Current (Imp) [A]	17.33	17.38	17.43	17.48	17.53
Module Efficiency	21.25%	21.41%	21.57%	21.73%	21.89%

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

Temperature coefficients

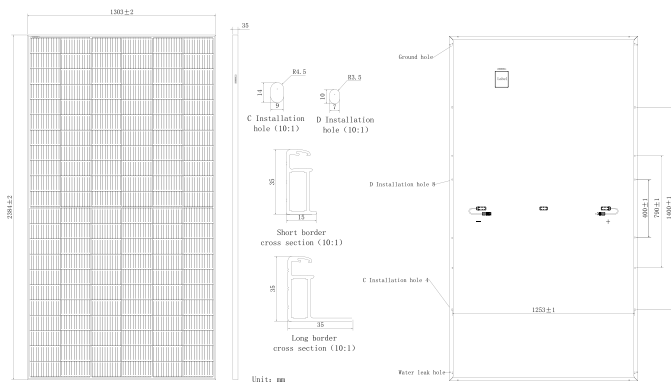
Temperature coefficient of Isc	+0.050%/°C
Temperature coefficient of Voc	-0.260%/°C
Temperature coefficient of Pmax	-0.340%/°C
NMOT	45±2°C

Electric Characteristics (NMOT)

Module Type	SS9-66HS -660M	SS9-66HS -665M	SS9-66HS -670M	SS9-66HS -675M	SS9-66HS -680M
Maximum Power (Pmax) [W]	500	504	508	512	516
Open-Circuit Voltage (Voc)[V]	42.52	42.70	42.88	43.06	43.24
Maximum Power Voltage (Vmp) [V]	35.38	35.56	35.74	35.92	36.10
Short-Circuit Current (Isc)[A]	15.04	15.08	15.12	15.16	15.20
Maximum Power Current (Imp) [A]	14.14	14.18	14.22	14.26	14.30

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

Engineering Design



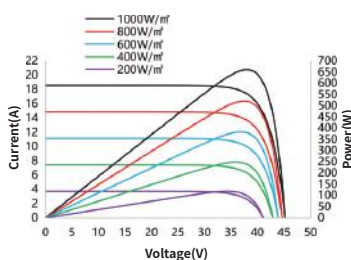
Mechanical Characteristics

Cell Type	Mono PERC (G12)
Number of Cells	132(6x22)
Dimensions	2384x1303x35mm
Weight	32.5kg
Glass	Single glass, 3.2mm coated tempered glass
Frame	Anodized Aluminum Alloy
Output Cables	4mm ² (IEC), 12AWG(UL) 300mm (including connector)
Junction Box	IP68 Rated, 3 diodes
Connector	MC4-EVO2 or MC4 Compatible
Packaging	31 Pieces/Pallet, 558 pieces/40' container

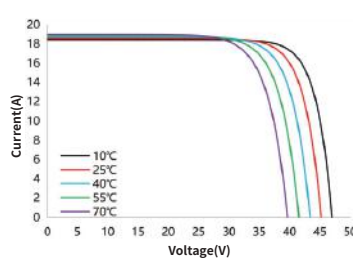
Frame color and cable length are subject to the actual order

Characteristics

I-V/P-V Curve at Different Irradiation
SS9-66HS -660M



I-V Curve at Different Temperature
SS9-66HS -660M



Operating Conditions

Maximum System Voltage	1500V DC
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

