



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

SS9-60HS

590-610M

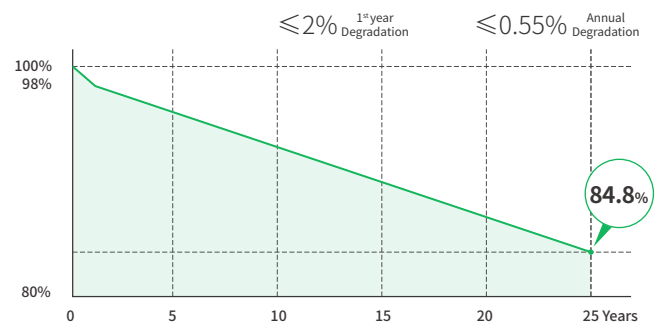
Mono-Facial Module

610W

Maximum Power Output

21.55%

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	SS9-60HS -590M	SS9-60HS -595M	SS9-60HS -600M	SS9-60HS -605M	SS9-60HS -610M
Maximum Power (Pmax) [W]	590	595	600	605	610
Open-Circuit Voltage (Voc)[V]	41.00	41.20	41.40	41.60	41.80
Maximum Power Voltage (Vmp) [V]	34.40	34.60	34.80	35.00	35.20
Short-Circuit Current (Isc)[A]	18.32	18.37	18.42	18.47	18.52
Maximum Power Current (Imp) [A]	17.16	17.21	17.26	17.31	17.35
Module Efficiency	20.85%	21.02%	21.20%	21.38%	21.55%

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

Temperature coefficients

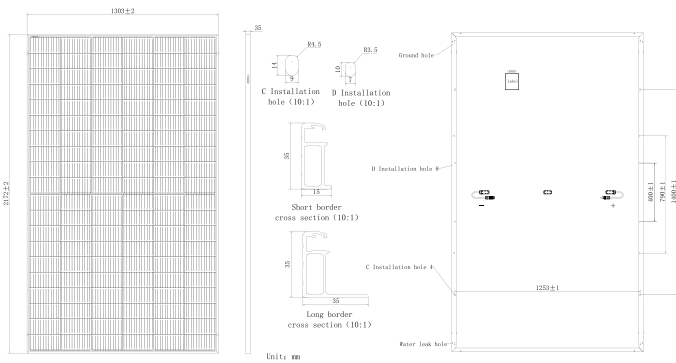
Temperature coefficient of Isc	+0.050%/°C
Temperature coefficient of Voc	-0.260%/°C
Temperature coefficient of Pmax	-0.340%/°C
NMOT	45 ± 2°C

Electric Characteristics (NMOT)

Module Type	SS9-60HS -590M	SS9-60HS -595M	SS9-60HS -600M	SS9-60HS -605M	SS9-60HS -610M
Maximum Power (Pmax) [W]	442	446	450	454	458
Open-Circuit Voltage (Voc)[V]	38.80	39.00	39.20	39.40	39.60
Maximum Power Voltage (Vmp) [V]	32.30	32.50	32.70	32.90	33.10
Short-Circuit Current (Isc)[A]	14.76	14.78	14.81	14.85	14.88
Maximum Power Current (Imp) [A]	13.71	13.74	13.77	13.81	13.84

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

Engineering Design

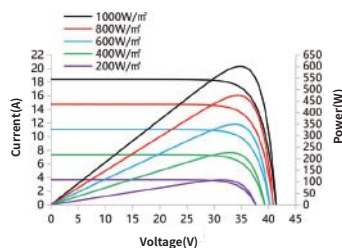


Mechanical Characteristics

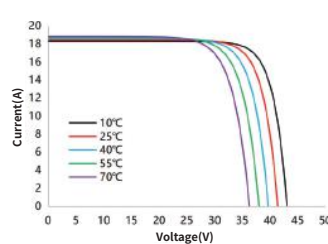
Cell Type	Mono PERC (G12)
Number of Cells	120(6x20)
Dimensions	2172x1303x35mm
Weight	29.8kg
Glass	Single glass, 3.2mm coated tempered glass
Frame	Anodized Aluminum Alloy
Output Cables	4mm ² (IEC),12AWG(UL) 300mm (including connector)
Junction Box	IP68 Rated, 3 diodes
Connector	MC4-EVO2 or MC4 Compatible
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
SS9-60HS -600M



I-V Curve at Different Temperature
SS9-60HS -600M



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

