



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 60GW+ capacity of solar cell and 7.2GW capacity of solar module in China and overseas.

*Please refer to SolarSpace for details

SS9-60HS 590-615M

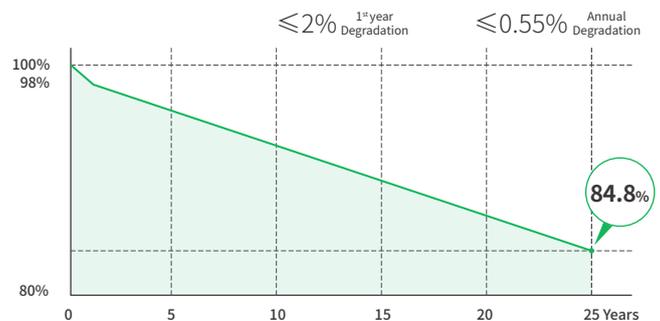
Mono-Facial Module

615W

Maximum Power Output

21.73%

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	SS9-60HS -615M
Maximum Power (Pmax) [W]	590	595	600	605	610	615
Open-Circuit Voltage (Voc)[V]	41.00	41.20	41.40	41.60	41.80	42.00
Maximum Power Voltage (Vmp) [V]	34.40	34.60	34.80	35.00	35.20	35.40
Short-Circuit Current (Isc)[A]	18.32	18.37	18.42	18.47	18.52	18.57
Maximum Power Current (Imp) [A]	17.16	17.21	17.26	17.31	17.35	17.39
Module Efficiency	20.85%	21.02%	21.20%	21.38%	21.55%	21.73%

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

Temperature coefficients

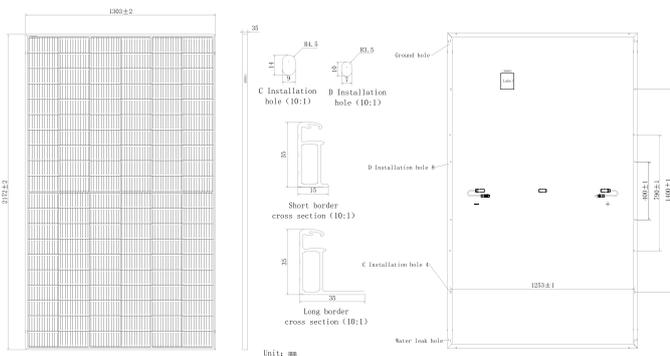
Temperature coefficient of Isc	+0.050%/°C
Temperature coefficient of Voc	-0.260%/°C
Temperature coefficient of Pmax	-0.340%/°C
NMOT	45±2°C

Electric Characteristics (NMOT)

Module Type	SS9-60HS -590M	SS9-60HS -595M	SS9-60HS -600M	SS9-60HS -605M	SS9-60HS -610M	SS9-60HS -615M
Maximum Power (Pmax) [W]	442	446	450	454	458	462
Open-Circuit Voltage (Voc)[V]	38.80	39.00	39.20	39.40	39.60	39.80
Maximum Power Voltage (Vmp) [V]	32.30	32.50	32.70	32.90	33.10	33.30
Short-Circuit Current (Isc)[A]	14.76	14.78	14.81	14.85	14.88	14.91
Maximum Power Current (Imp) [A]	13.71	13.74	13.77	13.81	13.84	13.88

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

Engineering Design



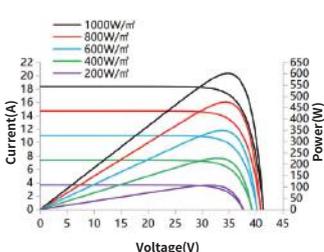
Mechanical Characteristics

Cell Type	Mono PERC
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

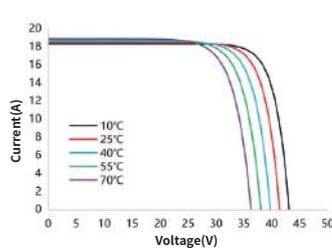
Frame color and cable length are subject to the actual order

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 (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

