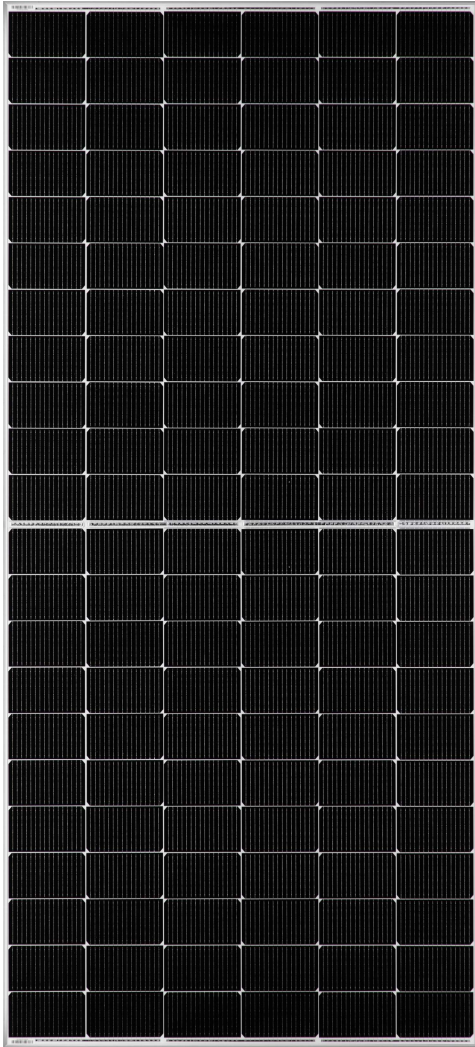


Lumina II



625W

Maximum Power Output

23.1%

Maximum Module Efficiency

SSA-66HD 600-625N

Bifacial Dual Glass Module



Super Power Output

SolarSpace advanced TOPCon cells combined with MBB and high-density encapsulation provides ultra-high power output



High Reliability

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



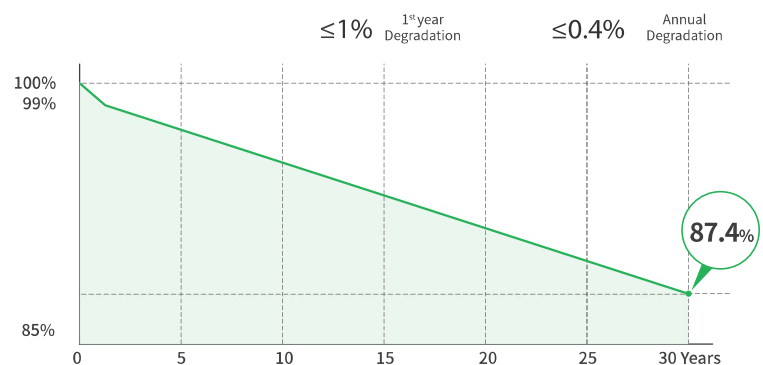
Extra power generation

N-type wafers and cells bring ultralow LID&LeTID degradation, less than 1% 1st year degradation guaranteed, in addition lower temperature coefficient and better weak-light response provide extra power generation



High ROI

Bifacial power generation reduces BOS and system LCOE dramatically, promoting the project ROI



15Years Product Warranty **30**Years Linear Power Warranty

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 30GW+ capacity of solar cell and 5.7GW capacity of solar module in China and overseas.

Comprehensive Certificates

- IEC61215
- IEC61730
- IEC61701
- IEC62716
- IEC60068
- ISO9001:2015: Quality Management System
- ISO14001:2015: Environment Management System
- ISO45001:2018: Occupational Health and Safety Management Systems



Electric Characteristics

STC: Irradiation 1000W/m², Cell Temperature 25°C, AM=1.5 NMOT: Irradiance 800 W/m², Ambient Temperature 20 °C, Wind Speed 1 m/s, AM=1.5

| Module Type | SSA-66HD -605N | | SSA-66HD -610N | | SSA-66HD -615N | | SSA-66HD -620N | | SSA-66HD -625N | |
|---------------------------------|----------------|-------|----------------|-------|----------------|-------|----------------|-------|----------------|-------|
| | STC | NMOT | STC | NMOT | STC | NMOT | STC | NMOT | STC | NMOT |
| Maximum Power (Pmax) [W] | 605 | 457 | 610 | 461 | 615 | 465 | 620 | 469 | 625 | 473 |
| Open-Circuit Voltage (Voc)[V] | 48.4 | 46.03 | 48.62 | 46.22 | 48.82 | 46.41 | 49.02 | 46.6 | 49.22 | 46.7 |
| Maximum Power Voltage (Vmp) [V] | 40.29 | 37.75 | 40.43 | 37.92 | 40.57 | 38.09 | 40.72 | 38.26 | 40.86 | 38.44 |
| Short-Circuit Current (Isc)[A] | 15.92 | 12.86 | 15.98 | 12.92 | 16.04 | 12.98 | 16.1 | 13.04 | 16.16 | 13.1 |
| Maximum Power Current (Imp) [A] | 15.02 | 12.11 | 15.09 | 12.16 | 15.16 | 12.21 | 15.23 | 12.26 | 15.3 | 12.31 |
| Module Efficiency | 22.40% | | 22.58% | | 22.77% | | 22.95% | | 23.14% | |
| Power Tolerance | 0~+5W | | | | | | | | | |
| Temperature coefficient of Isc | +0.046%/°C | | | | | | | | | |
| Temperature coefficient of Voc | -0.250%/°C | | | | | | | | | |
| Temperature coefficient of Pmax | -0.300%/°C | | | | | | | | | |

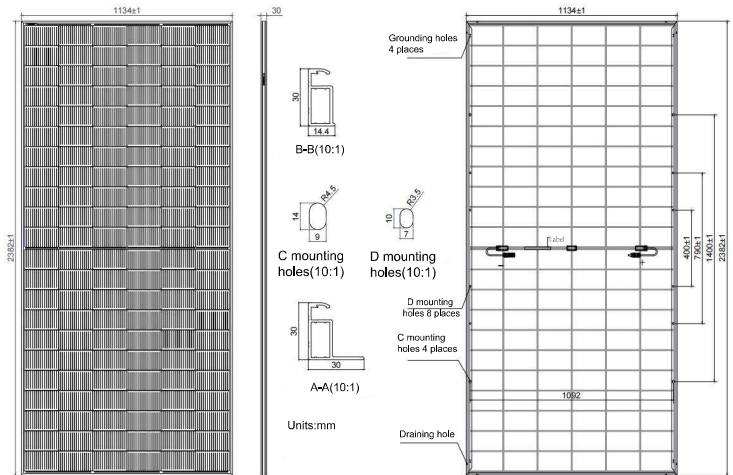
Bifacial Output-Rearside Power Gain (610W)

| Power Gain | 5% | 10% | 15% | 20% | 25% |
|---------------------------------|-------|-------|-------|-------|-------|
| Maximum Power (Pmax) [W] | 641 | 671 | 702 | 732 | 763 |
| Open-Circuit Voltage (Voc)[V] | 48.64 | 48.64 | 48.64 | 48.66 | 48.68 |
| Maximum Power Voltage (Vmp) [V] | 40.45 | 40.45 | 40.45 | 40.47 | 40.49 |
| Short-Circuit Current (Isc)[A] | 16.78 | 17.58 | 18.38 | 19.18 | 19.98 |
| Maximum Power Current (Imp) [A] | 15.85 | 16.59 | 17.36 | 18.09 | 18.85 |

Mechanical Characteristics

| | |
|-----------------|---|
| Cell Type | Mono TOPCon |
| Number of Cells | 132(6x22) |
| Dimensions | 2382X1134X30mm |
| Weight | 33.5kg |
| Glass | Front glass, 2.0mm coated semi-tempered glass Back Glass, 2.0mm glazed semi-tempered glass |
| Frame | Silver, Anodized Aluminum Alloy |
| Output Cables | 4mm ² (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, 720 pieces/40' container |

Engineering Design

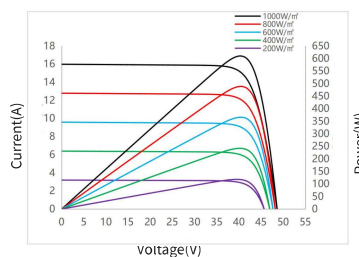


Operating Conditions

| | |
|------------------------------------|--------------------------------|
| Maximum System Voltage | 1500V DC (IEC) |
| Operating Temperature | -40°C~+85°C |
| Maximum Series Fuse Rating | 30A |
| Mechanical Load Front Rear | 5400Pa(112lb/ft ²) |
| Mechanical Load Back Rear | 2400Pa (50lb/ft ²) |
| Nominal operating cell temperature | 45±2°C |
| Bifaciality | 80±5% |
| Safety Class | Class II |
| Fire Rating | Class A |

Characteristics

I-V/P-V Curve at Different Irradiation SSA-66HD-610N



I-V Curve at Different Temperature SSA-66HD-610N

