



Lumina II



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

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

SSA-66HDB 605-625N

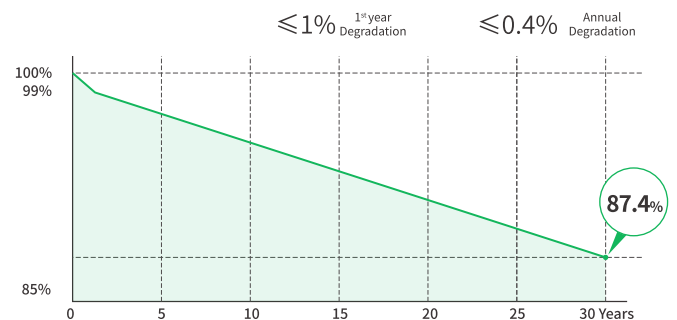
N-TOPCon Bifacial Dual Glass Module

625W

Maximum Power Output

23.14%

Maximum Module Efficiency



15 Years Product Warranty **30** 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 | SSA-66HDB | SSA-66HDB | SSA-66HDB | SSA-66HDB | SSA-66HDB |
|---------------------------------|-----------|-----------|-----------|-----------|-----------|
| | -605N | -610N | -615N | -620N | -625N |
| Maximum Power (Pmax) [W] | 605 | 610 | 615 | 620 | 625 |
| Open-Circuit Voltage (Voc)[V] | 51.42 | 51.62 | 51.82 | 52.02 | 52.22 |
| Maximum Power Voltage (Vmp) [V] | 42.32 | 42.45 | 42.58 | 42.71 | 42.84 |
| Short-Circuit Current (Isc)[A] | 14.99 | 15.05 | 15.11 | 15.17 | 15.23 |
| Maximum Power Current (Imp) [A] | 14.31 | 14.38 | 14.45 | 14.52 | 14.59 |
| Module Efficiency | 22.40% | 22.58% | 22.77% | 22.95% | 23.14% |

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

Electric Characteristics (NMOT)

| Module Type | SSA-66HDB | SSA-66HDB | SSA-66HDB | SSA-66HDB | SSA-66HDB |
|---------------------------------|-----------|-----------|-----------|-----------|-----------|
| | -605N | -610N | -615N | -620N | -625N |
| Maximum Power (Pmax) [W] | 457 | 461 | 465 | 469 | 473 |
| Open-Circuit Voltage (Voc)[V] | 48.88 | 49.07 | 49.26 | 49.45 | 49.64 |
| Maximum Power Voltage (Vmp) [V] | 39.65 | 39.81 | 39.98 | 40.13 | 40.30 |
| Short-Circuit Current (Isc)[A] | 12.11 | 12.17 | 12.23 | 12.29 | 12.35 |
| Maximum Power Current (Imp) [A] | 11.54 | 11.59 | 11.64 | 11.69 | 11.74 |

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

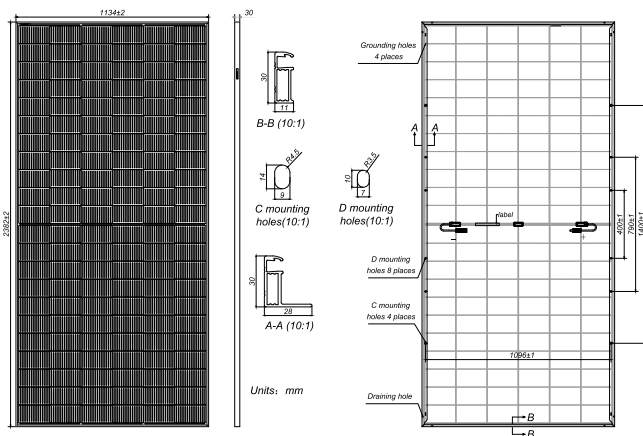
Bifacial Output-Rearside Power Gain (610W)

| Power Gain | 5% | 10% | 15% | 20% | 25% |
|---------------------------------|-------|-------|-------|-------|-------|
| Maximum Power (Pmax) [W] | 641 | 671 | 702 | 732 | 763 |
| Open-Circuit Voltage (Voc)[V] | 51.64 | 51.64 | 51.64 | 51.66 | 51.66 |
| Maximum Power Voltage (Vmp) [V] | 42.45 | 42.45 | 42.45 | 42.47 | 42.47 |
| Short-Circuit Current (Isc)[A] | 15.79 | 16.57 | 17.35 | 18.13 | 18.91 |
| Maximum Power Current (Imp) [A] | 15.11 | 15.81 | 16.54 | 17.24 | 17.97 |

Temperature coefficients

| | |
|---------------------------------|------------|
| Temperature coefficient of Isc | +0.045%/°C |
| Temperature coefficient of Voc | -0.260%/°C |
| Temperature coefficient of Pmax | -0.290%/°C |
| NMOT | 45±2°C |

Engineering Design

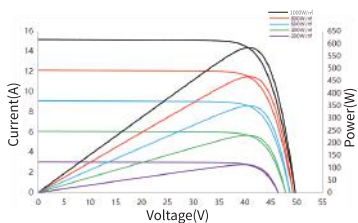


Mechanical Characteristics

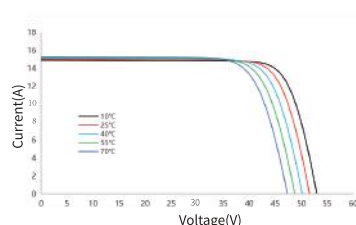
| | |
|-----------------|--|
| Cell Type | Mono TOPCon |
| Number of Cells | 132(6x22) |
| Dimensions | 2382X1134X30mm |
| Weight | 32.5kg |
| Glass | Front Glass, 2.0mm AR coated semi-tempered glass Back Glass, 2.0mm glazed semi-tempered glass |
| Frame | Black, Anodized Aluminum Alloy |
| Output Cables | 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 |

Characteristics

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



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



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 |
| Bifaciality | 80±10% |

