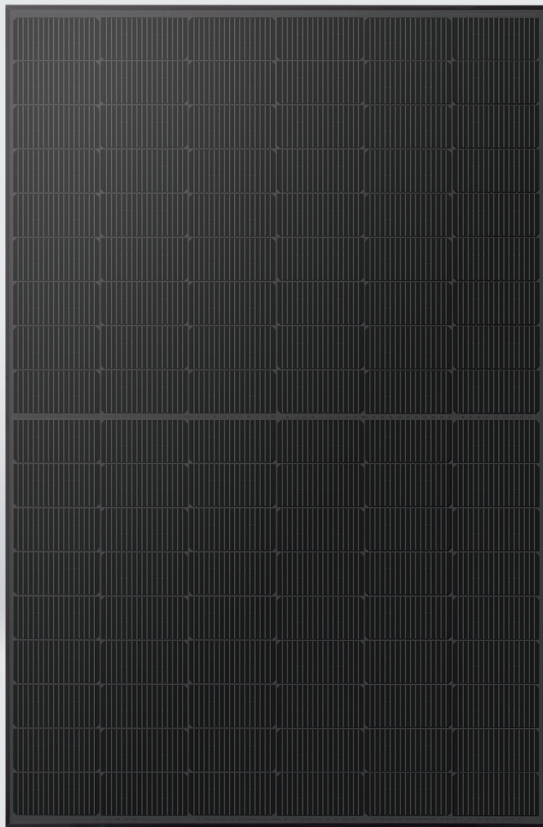


Lumina II



430W
Maximum
Power Output

22.0%
Maximum
Module Efficiency

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.

SS8-54HDB 410-430N

All Black 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



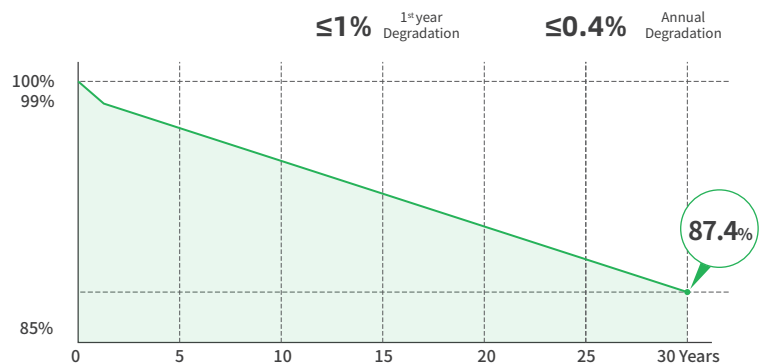
Extra power generation

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



Aesthetic Design

All black design brings highly consistent appearance for rooftops



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

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

| Module Type | SS8-54HDB -410N | SS8-54HDB -415N | SS8-54HDB -420N | SS8-54HDB -425N | SS8-54HDB -430N |
|---------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| Maximum Power (Pmax) [W] | 410 | 415 | 420 | 425 | 430 |
| Open-Circuit Voltage (Voc)[V] | 37.72 | 37.91 | 38.10 | 38.29 | 38.48 |
| Maximum Power Voltage (Vmp) [V] | 31.12 | 31.31 | 31.50 | 31.69 | 31.87 |
| Short-Circuit Current (Isc)[A] | 13.92 | 14.00 | 14.08 | 14.16 | 14.24 |
| Maximum Power Current (Imp) [A] | 13.18 | 13.26 | 13.34 | 13.42 | 13.50 |
| Module Efficiency | 21.00% | 21.25% | 21.51% | 21.76% | 22.02% |
| 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 | | | | |

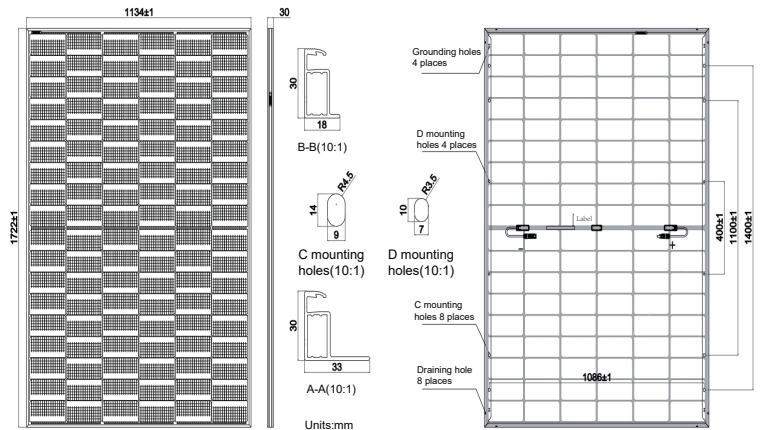
Bifacial Output-Rearside Power Gain (420W)

| Power Gain | 5% | 10% | 15% | 20% | 25% |
|---------------------------------|-------|-------|-------|-------|-------|
| Maximum Power (Pmax) [W] | 441 | 462 | 483 | 504 | 525 |
| Open-Circuit Voltage (Voc)[V] | 38.10 | 38.10 | 38.10 | 38.20 | 38.20 |
| Maximum Power Voltage (Vmp) [V] | 31.50 | 31.50 | 31.50 | 31.60 | 31.60 |
| Short-Circuit Current (Isc)[A] | 14.51 | 15.06 | 15.60 | 16.16 | 16.71 |
| Maximum Power Current (Imp) [A] | 14.01 | 14.68 | 15.35 | 15.96 | 16.62 |

Mechanical Characteristics

| | |
|-----------------|---|
| Cell Type | N-TOPCon(M10) |
| Number of Cells | 108(6x18) |
| Dimensions | 1722X1134X30mm |
| Weight | 22.0kg |
| Glass | Front glass, 2.0mm coated tempered glass Back Glass, 2.0mm glazed tempered glass |
| Frame | Black, Anodized Aluminum Alloy |
| Output Cables | 4mm ² (IEC),12AWG(UL) 1000mm (including connector) or Customized Length |
| Junction Box | IP68 Rated, 3 diodes |
| Connector | MC-EVO2 or MC4 Compatible |
| Packaging | 36 Pieces/Pallet, 936 pieces/40' container |

Engineering Design

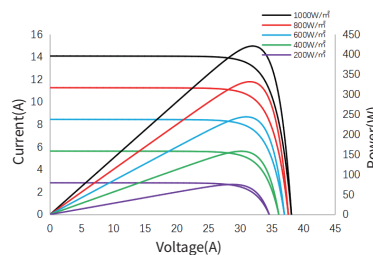


Operating Conditions

| | |
|------------------------------------|--------------------------------|
| 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
SS8-54HDB-420N



I-V Curve at Different Temperature
SS8-54HDB-420N

