

EVO 6R

615-640W

SE6R-66HBD

N-Type TOPCon Bifacial
Double-Glass Solar Module

23.71%

Max. Module Efficiency

N-Type 182*210mm Cell

Adopting the 182*210mm N-Type TOPCon cells with the highest efficiency.

Bifacial with Double-Glass

Module adopts 182*210mm half cells, bifacial module provide an additional 5%~25% output.

Load Capacity

Mechanical load tests including wind load 2400Pa and snow load 5400Pa done by TUV.

PID Protection

Ensure the attenuation probability caused by PID phenomenon is minimized.

Harsh Environmental Adaptability

Strict salt spray and ammonia corrosion test by TUV.

Quality Management System and Product Certification

IEC61215/61730, IEC62804(PID), IEC61701(Salt),
IEC62716 (Ammonia), IEC60068-2-68(Sand),
ISO 9001:2015/quality management system,
ISO 14001:2015/environmental management system,
ISO 45001:2018/occupation health safety management system,
ISO 50001:2011/energy management system,
IEC TS 62941-2016/PV industry quality management system.

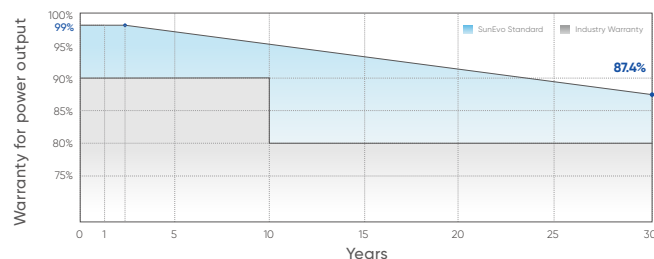
Quality Guarantee

25 Years

Materials Warranty

30 Years

Power Warranty



Mechanical Characteristics

| | |
|------------------------|---|
| Weight | 33.5kg |
| Dimensions | 2382×1134×30mm |
| Cell Dimensions | 182×210mm |
| Cell Amount | 66×2 pcs |
| Maximum System Voltage | 1500V |
| Junction Box | IP68 |
| Glass Thickness | (F) 2.0mm, Anti-Reflection Coating (B) 2.0mm, Heat Strengthened Glass |
| Frame | Aluminum Alloy |
| Cable | 4mm ² , 300mm in length, length can be customized / UV resistant |
| Connector | MC4 Compatible |
| Bifaciality | 80±5% |
| Packing | 36pcs/box, 720pcs/40'HQ |

Electrical Parameters (STC*)

| | | | | | | |
|----------------------------------|-------|-------|-------|-------|-------|-------|
| Module Type: SE6R-66HBD | 615 | 620 | 625 | 630 | 635 | 640 |
| Maximum Power (Pmax/W) | 615 | 620 | 625 | 630 | 635 | 640 |
| Open Circuit Voltage (Voc/V) | 49.35 | 49.55 | 49.75 | 49.95 | 50.15 | 50.35 |
| Short Circuit Current (Isc/A) | 15.88 | 15.93 | 16.00 | 16.07 | 16.14 | 16.21 |
| Voltage at Maximum Power (Vmp/V) | 40.86 | 41.06 | 41.26 | 41.46 | 41.66 | 41.86 |
| Current at Maximum Power (Imp/A) | 15.05 | 15.10 | 15.15 | 15.20 | 15.25 | 15.30 |
| Module Efficiency (%) | 22.77 | 22.95 | 23.14 | 23.33 | 23.52 | 23.71 |

*STC: Irradiance 1000W/m², cell temperature 25°C, AM=1.5. Tolerance of Pmax is within ±3%.

Electrical Parameters (NMOT**)

| | | | | | | |
|----------------------------------|-------|-------|-------|-------|-------|-------|
| Maximum Power (Pmax/W) | 469 | 472 | 476 | 480 | 484 | 488 |
| Open Circuit Voltage (Voc/V) | 46.81 | 47.01 | 47.21 | 47.41 | 47.61 | 47.81 |
| Short Circuit Current (Isc/A) | 12.81 | 12.84 | 12.88 | 12.92 | 12.96 | 13.00 |
| Voltage at Maximum Power (Vmp/V) | 38.40 | 38.60 | 38.80 | 39.00 | 39.20 | 39.40 |
| Current at Maximum Power (Imp/A) | 12.21 | 12.23 | 12.27 | 12.31 | 12.35 | 12.39 |

**NMOT: Under Nominal Module Operating Temperature (NMOT), irradiance of 800W/m², spectrum AM 1.5, ambient temperature 20°C, wind speed 1m/s.

Electrical Parameters (At 10% Bifacial Power Output)

| | | | | | | |
|----------------------------------|-------|-------|-------|-------|-------|-------|
| Output Power (Pmax/W) | 677 | 682 | 688 | 694 | 699 | 704 |
| Open Circuit Voltage (Voc/V) | 49.35 | 49.55 | 49.75 | 49.95 | 50.15 | 50.35 |
| Short Circuit Current (Isc/A) | 17.47 | 17.52 | 17.57 | 17.62 | 17.67 | 17.72 |
| Voltage at Maximum Power (Vmp/V) | 40.86 | 41.06 | 41.26 | 41.46 | 41.66 | 41.86 |
| Current at Maximum Power (Imp/A) | 16.57 | 16.61 | 16.67 | 16.74 | 16.78 | 16.82 |

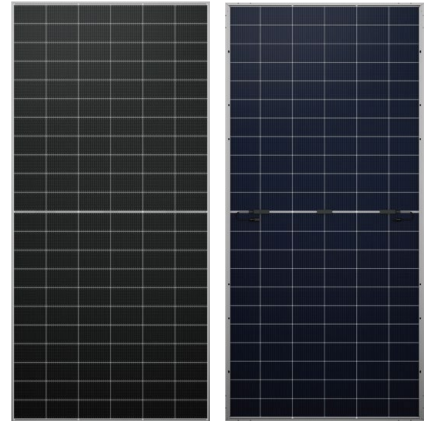
Temperature Characteristics

| | |
|---------------------------|------------|
| NMOT | 41±3°C |
| Temp. Coefficient of Voc | -0.25%/°C |
| Temp. Coefficient of Isc | +0.046%/°C |
| Temp. Coefficient of Pmax | -0.30%/°C |

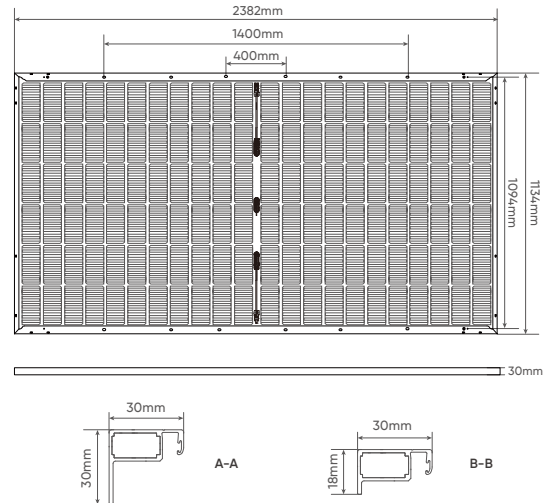
Maximum Rating

| | |
|-----------------------|---------------|
| Output Tolerance | 0~+5W |
| Operating Temperature | -40°C~+85°C |
| Wind Load/Snow Load | 2400Pa/5400Pa |
| Fuse Current | 25A |

Product Image



Drawings



Characteristics (SE6R-66HBD-615W)

