

# HiSEER 3N

SH18-40H-S 330-350W

Topcon Module



**330-350W**

Max. Power Output



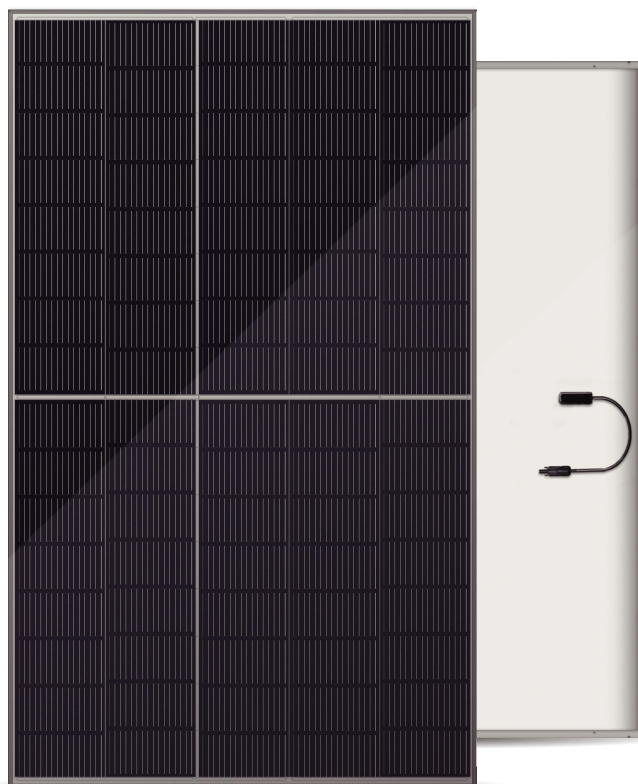
**1640\*992mm**

Size



**21.5%**

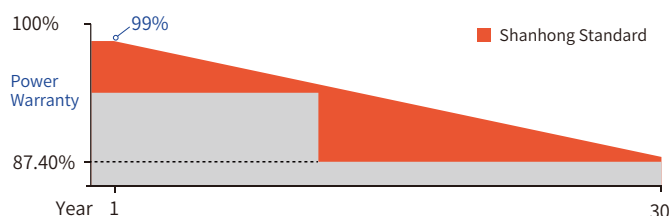
Module Efficiency



## LINEAR PERFORMANCE WARRANTY

**30** Years linear power output warranty

**15** Years product warranty on materials and workmanship



30 years decay  $\leq 0.40\%$  annually on average

## Product and System Certification

- IEC61215(2016)/IEC61730(2018)
- IEC61701/IEC62716/IEC60068 ● ISO9001:2015
- ISO14001:2015 ● ISO45001:2018

## Product advantages



### N-type TOPCon technology for lower LCOE

The lower temperature coefficient and better low irradiance performance of HJT technology can effectively reduce LCOE.



### Fire class A, harsh environment adaptability

The module adopt a double glass structure, which can adapt to all kinds of harsh environment, and the fire rating can reach Class A.



### 30-year power warranty

The average life of dual-glass module is 30 years, 5 years longer than that of single-glass modules.



### Double-sided power generation, higher income

The dual-glass module has a bifaciality of up to 80% and a power generation gain of 5%-25% on the back side.



## Electrical Characteristics(STC)

|                             |       |       |       |       |       |
|-----------------------------|-------|-------|-------|-------|-------|
| Maximum Power (Pmax)        | 330   | 335   | 340   | 345   | 350   |
| Maximum Power Voltage (Vmp) | 24.70 | 24.90 | 25.10 | 25.30 | 25.50 |
| Maximum Power Current (Imp) | 13.36 | 13.45 | 13.55 | 13.64 | 13.73 |
| Open-circuit Voltage (Voc)  | 28.96 | 29.16 | 29.36 | 29.56 | 29.76 |
| Short-circuit Current (Isc) | 14.25 | 14.35 | 14.45 | 14.55 | 14.65 |
| Module Efficiency [%]       | 20.3  | 20.6  | 20.9  | 21.2  | 21.5  |
| Measuring tolerance [%]     | 0~+5% | 0~+5% | 0~+5% | 0~+5% | 0~+5% |

STC: Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, Air Mass AM1.5

## Electrical Characteristics(NOCT)

|                             |       |       |       |       |       |
|-----------------------------|-------|-------|-------|-------|-------|
| Maximum Power (Pmax)        | 249   | 253   | 257   | 261   | 265   |
| Maximum Power Voltage (Vmp) | 22.83 | 23.00 | 23.17 | 23.34 | 23.51 |
| Maximum Power Current (Imp) | 10.91 | 11.00 | 11.09 | 11.18 | 11.27 |
| Open-circuit Voltage (Voc)  | 27.27 | 27.45 | 27.63 | 27.81 | 27.99 |
| Short-circuit Current (Isc) | 11.51 | 11.59 | 11.67 | 11.75 | 11.83 |

NOCT: Irradiance 800W/m<sup>2</sup>, Ambient Temperature 20°C, Wind Speed 1m/s

## Mechanical Data

|                   |                                |
|-------------------|--------------------------------|
| Module Dimensions | 1640*992*30mm                  |
| Solar Cells       | Monocrystalline (182.2*95.8)   |
| No. of Cells      | 80[2 x (8x 5)]                 |
| Glass             | 2.0mm, Heat Strengthened Glass |
| Frame             | Anodized Aluminium Alloy       |
| Encapsulant       | EPE/EVA                        |
| J-Box             | IP68                           |
| Connector         | MC4 Compatible                 |
| Output Cable      | 4.0mm <sup>2</sup> , 300/300mm |
| Weight            | 18.5kg                         |

## Operating Data

|                            |               |
|----------------------------|---------------|
| Operational Temperature    | -40°C~+85°C   |
| Maximum System Voltage     | 1500V DC(IEC) |
| Maximum Series Fuse Rating | 30A           |
| Bifacility                 | /             |

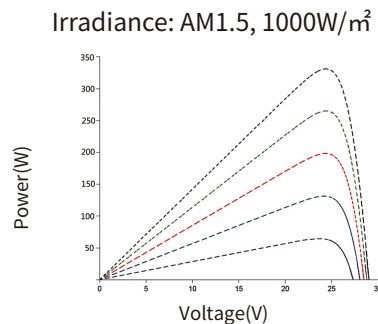
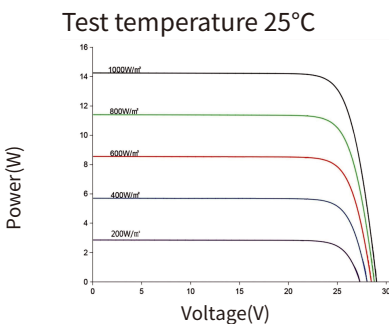
## Temperature Ratings

|                                    |            |
|------------------------------------|------------|
| Nominal operating cell temperature | 45°C(±2°C) |
| Temperature Coefficient of Pmax    | -0.290%/°C |
| Temperature Coefficient of Voc     | -0.250%/°C |
| Temperature Coefficient of Isc     | +0.040%/°C |

## Packaging

|                   |                                        |
|-------------------|----------------------------------------|
| Pallet Dimensions | 1700×992×1250 mm                       |
| Information       | 36 Pcs per Pallet, 1008 Pcs per 40' HC |

## IV Curve and PV Curve



## Structural Diagram(mm)

