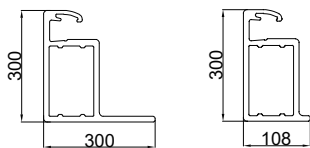
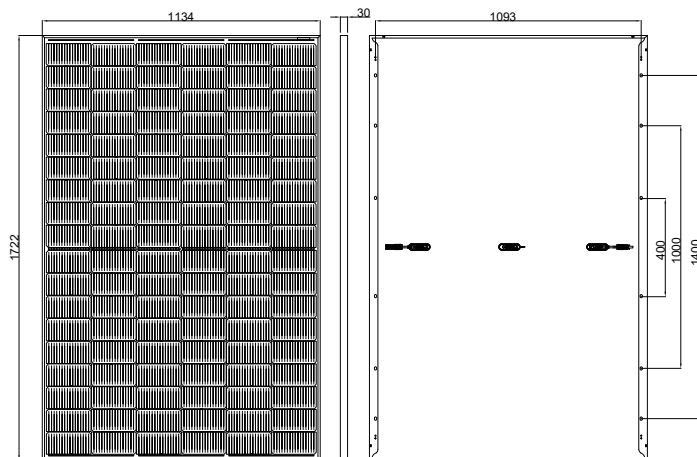


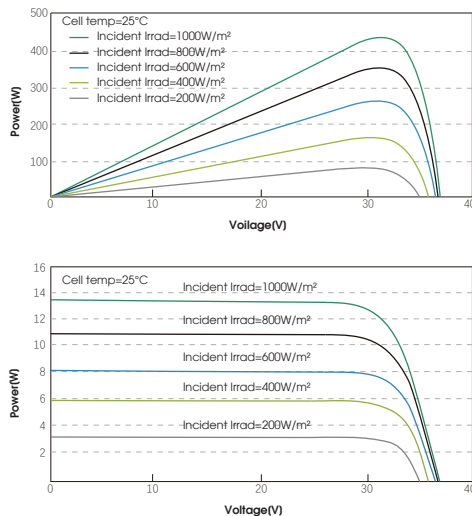
## Drawing Information



## Packaging Configuration

|               |        |       |
|---------------|--------|-------|
| Per Pallet    | 31 Pcs |       |
| Container     | 20'GP  | 40'HQ |
| Pcs/Container | 186    | 806   |

## I-V Curve



## Mechanical Parameters

|               |  |
|---------------|--|
| Cell Type     | N type Mono-crystalline                    |
| No. of cells  | 108(6x18)                                  |
| Dimensions    | 1722x1134x35mm                             |
| Weight        | 22kg                                       |
| Front Glass   | 2.0mm, Anti-Reflection Coating             |
| Back Glass    | white                                      |
| Frame         | Anodized Aluminum Alloy Frame              |
| Junction Box  | IP68 Rated / 3 Diodes                      |
| Output Cables | 4.0mm²/+450mm -250mm, or Customized Length |

## ELECTRICAL PARAMETERS

| Module Type                              | 182THC415-54   |       | 182THC420-54 |       | 182THC425-54 |       | 182THC430-54 |       | 182THC435-54 |       |
|--|----------------|-------|--------------|-------|--------------|-------|--------------|-------|--------------|-------|
|  | STC            | NOCT  | STC          | NOCT  | STC          | NOCT  | STC          | NOCT  | STC          | NOCT  |
| Maximum Power(Pmax/W)                    | 415            | 312   | 420          | 316   | 425          | 320   | 430          | 324   | 435          | 328   |
| Maximum Power Voltage(Vmp/V)             | 31.24          | 29.17 | 31.4         | 29.33 | 31.58        | 29.49 | 31.76        | 29.65 | 31.94        | 29.81 |
| Maximum Power Current(Imp/A)             | 13.29          | 10.70 | 13.39        | 10.77 | 13.48        | 10.85 | 13.54        | 10.93 | 13.62        | 11.00 |
| Open-circuit Voltage(Voc/V)              | 37.85          | 35.97 | 38.00        | 36.13 | 38.15        | 36.28 | 38.30        | 36.45 | 38.45        | 36.61 |
| Short-circuit Current(Isc/A)             | 14.22          | 11.52 | 14.27        | 11.58 | 14.32        | 11.64 | 14.37        | 11.71 | 14.42        | 11.76 |
| Module Efficiency(%)                     | 21.30%         |       | 21.50%       |       | 21.80%       |       | 22.00%       |       | 22.30%       |       |
| Operating Temperature(°C)                | -40°C~+85°C    |       |              |       |              |       |              |       |              |       |
| Maximum system voltage                   | DC 1000V/1500V |       |              |       |              |       |              |       |              |       |
| Maximum series fuse rating               | 25A            |       |              |       |              |       |              |       |              |       |
| Power tolerance                          | 0~+5W          |       |              |       |              |       |              |       |              |       |
| Temperature coefficients of Pmax         | -0.25%/°C      |       |              |       |              |       |              |       |              |       |
| Temperature coefficients of Voc          | -0.29%/°C      |       |              |       |              |       |              |       |              |       |
| Temperature coefficients of Isc          | 0.04%/°C       |       |              |       |              |       |              |       |              |       |
| Nominal operating cell temperature(NOCT) | 45±2°C         |       |              |       |              |       |              |       |              |       |

\*STC: Irradiance 1000W/m²

Cell Temperature 25°C

AM=1.5

\*NOCT: Irradiance 800W/m²

Cell Temperature 25°C

AM=1.5

Wind Speed 1m/s



# N<sup>+</sup> SERIES

## SUN182THCxxx-54

### 415-435 Watt

#### MONO-FACIAL MODULE

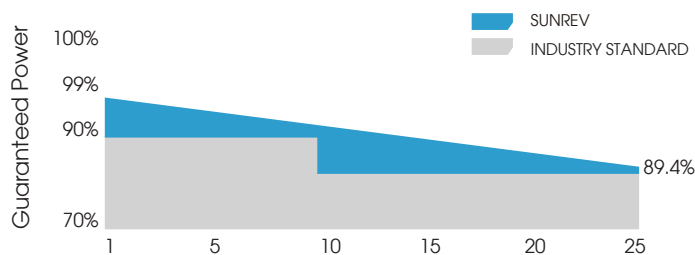
#### N-Type

IEC 61215(2016), IEC 61730(2016)

ISO 9001:2015: Quality management system

ISO 14001:2015: Environment System

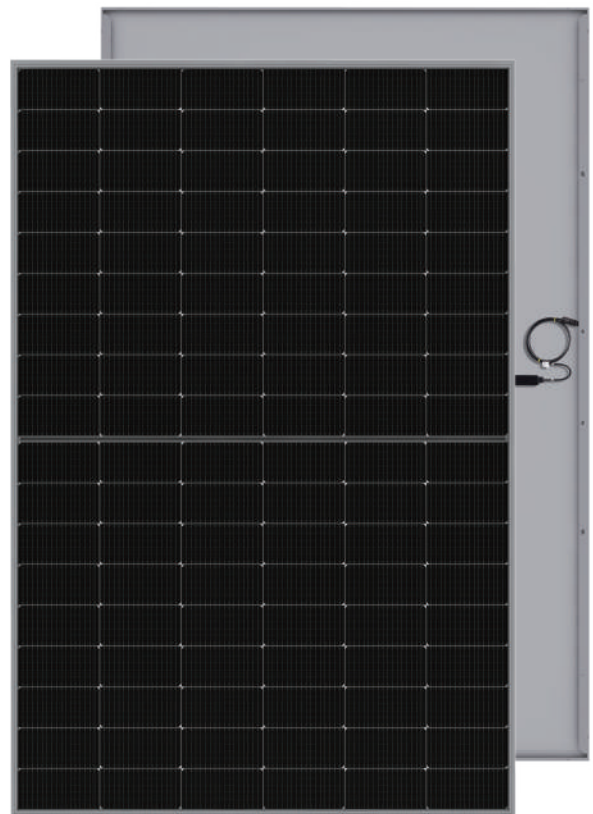
ISO 45001:2018: Occupational health management systems



**15-Year** Warranty for Materials and Processing

**25-Year** Warranty for Extra Linear Power Putput

**0.40%** Annual Degradation Over 25 years



## PRODUCT FEATURES



#### SMBB Technology Half Cut Topcon Cell

Better light trapping and current collection to improve module power output and reliability.



#### Excellent Low-light Performance

Better performance under shading effect.



#### PID Resistance

Excellent Anti-PID performance guarantee via optimized mass-production process and materials control.



#### HOT 2.0 Technology

The N-type module with Hot 2.0 technology has better reliability and lower LID/LETID



#### Enhanced Mechanical Load

Certified to withstand: wind load (2400Pa) and snow load (5400Pa).

