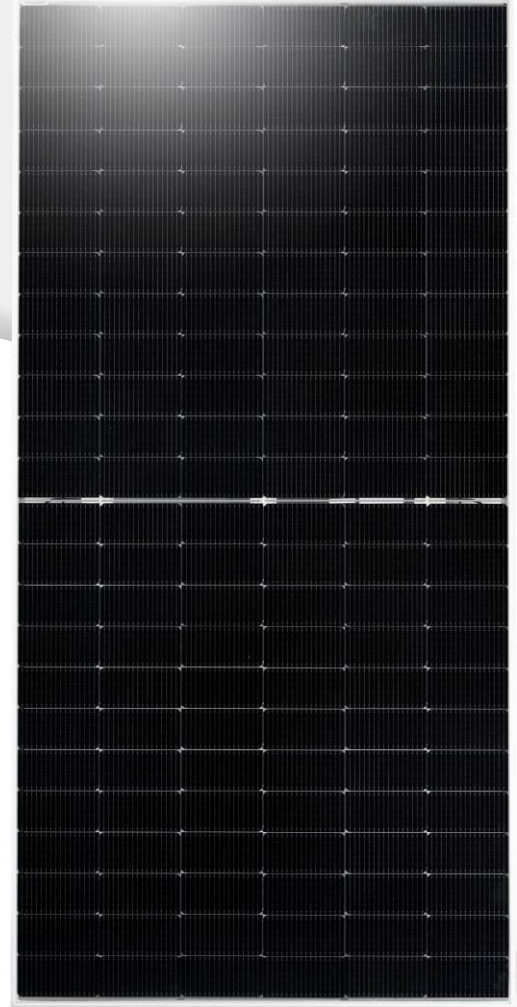
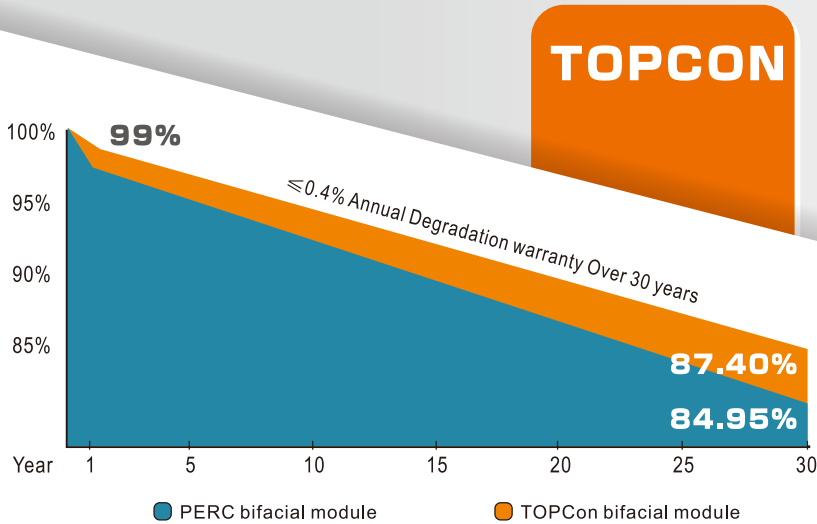


# DOUBLE-GLASS BIFACIAL N-TYPE 570~580 Watt



**Anti-PID(potential induced degradation)**  
Passed anti-PID test under 85% damp heat  
85% relative humidity for 96 hours



**Great Durability against extreme conditions**  
Passed salt mist corrosion test, ammonia corrosion test  
dust & sand test, fire test, all certified by TUV



**Lower LCOE**  
Lower shading and resistive loss  
Lower temperature coefficient



**Outstanding mechanical load resistance**  
2400 Pa wind load, 5400 Pa snow load



**15**  
**30**  
15-year product warranty  
30-year linear power output



CEC Listed



IEC 61215, IEC 61730

ISO 9001: 2015 (Quality management systems)

ISO 14001: 2015 (Environmental management systems)

ISO 45001: 2018 (Occupational health and safety)

UNI 9177 Ia CLASSE DI REAZIONE AL FUOCO: 1



# TOPCON (N TYPE) 570~580Watt



## ELECTRICAL SPECIFICATIONS

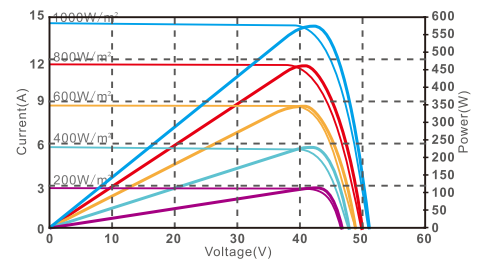
| Module Type                               | UL-570M-144ADGN |       | UL-575M-144ADGN |       | UL-580M-144ADGN |       |       |
|---|-----------------|-------|-----------------|-------|-----------------|-------|-------|
|   | STC*            | NOCT* | STC             | NOCT  | STC             | NOCT  |       |
| Maximum Power (Pmax)                      | W               | 570   | 425             | 575   | 428             | 580   | 432   |
| Maximum Power Voltage (Vmp)               | V               | 42.20 | 38.8            | 42.30 | 38.9            | 42.40 | 39.0  |
| Maximum Power Current (Imp)               | A               | 13.51 | 10.94           | 13.59 | 11.01           | 13.68 | 11.08 |
| Open-circuit Voltage (Voc)                | V               | 50.74 | 46.1            | 50.88 | 46.2            | 51.02 | 46.4  |
| Short-circuit Current (Isc)               | A               | 14.23 | 11.48           | 14.31 | 11.55           | 14.40 | 11.62 |
| Module Efficiency STC                     | %               | 22.07 |                 | 22.26 |                 | 22.45 |       |
| Operating Temperature                     | -40°C~85°C      |       |                 |       |                 |       |       |
| Maximum system voltage                    | DC1500V(IEC)    |       |                 |       |                 |       |       |
| Maximum series fuse rating                | 25A             |       |                 |       |                 |       |       |
| Power tolerance                           | 0~+5 Watt       |       |                 |       |                 |       |       |
| Temperature coefficients of Pmax          | -0.30%/°C       |       |                 |       |                 |       |       |
| Temperature coefficients of Voc           | -0.250%/°C      |       |                 |       |                 |       |       |
| Temperature coefficients of Isc           | 0.046%/°C       |       |                 |       |                 |       |       |
| Nominal operating cell temperature (NOCT) | 43±2°C          |       |                 |       |                 |       |       |

\*STC : Cell temperature: 25°C, Irradiance: 1000 W/m², Air mass: 1.5G

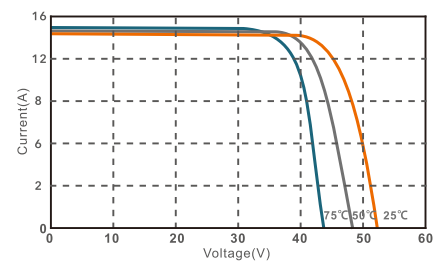
\*NOCT : Air temperature: 20°C, Irradiance: 800 W/m², Air mass: 1.5G, Wind speed: 1 m/s

## I-V CURVE

I-V characteristics at different irradiances

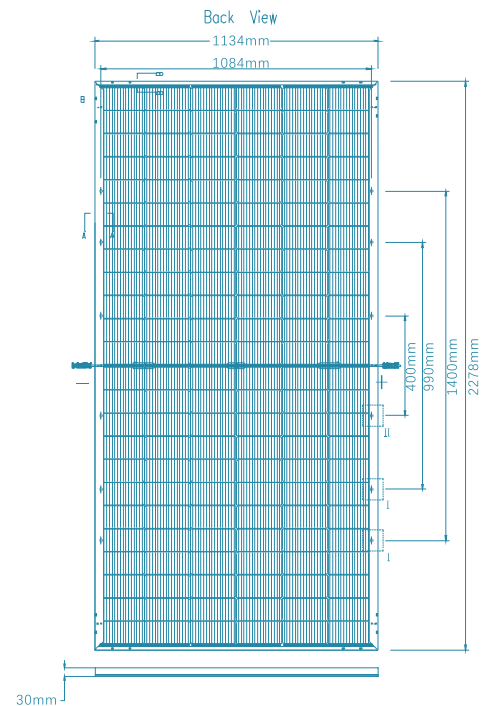


I-V characteristics at different temperature



## SPECIFICATIONS

|                                    |   |  |
|------------------------------------|---|--|
| Cell Type                          | 182x91mm N type Mono-crystalline  |  |
| No. of cells                       | 144 (6×12×2)  |  |
| Dimensions                         | 2278*1134*30mm  |  |
| Weight                             | 32Kg  |  |
| Glass                              | 2.0mm+2.0mm, Anti-Reflection Coating, High Transmission, Low Iron, Tempered Glass |  |
| Junction Box                       | IP68, 3diodes   |  |
| Connector                          | MC4 Compatible  |  |
| Cable Length (Including Connector) | 4mm²<br>Portrait: (+)400 mm/(-) 200mm<br>Landscape: (+) 1400mm/(-)1400 mm         |  |
| Packaging Configuration            | Two Box=One pallet<br>36pcs/Box, 72pcs/Pallet, 720pcs/40HQ Container              |  |



### Electrical characteristics with different rear side power gain (reference to 570W front)

| Pmax/W | Voc/V | Isc/A | Vmp/V | Imp/A | Pmax gain |
|--------|-------|-------|-------|-------|-----------|
| 570    | 50.7  | 14.23 | 42.2  | 13.51 | 0         |
| 599    | 50.7  | 14.94 | 42.2  | 14.18 | 5%        |
| 627    | 50.7  | 15.65 | 42.2  | 14.86 | 10%       |
| 656    | 50.7  | 16.36 | 42.2  | 15.53 | 15%       |
| 684    | 50.7  | 17.08 | 42.2  | 16.21 | 20%       |
| 713    | 50.7  | 17.79 | 42.2  | 16.88 | 25%       |
| 741    | 50.7  | 18.50 | 42.2  | 17.56 | 30%       |

