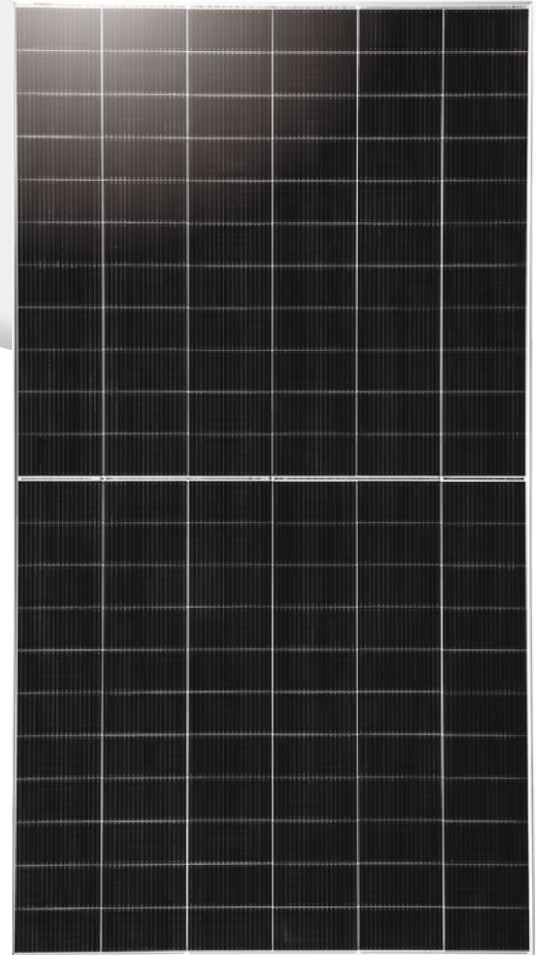
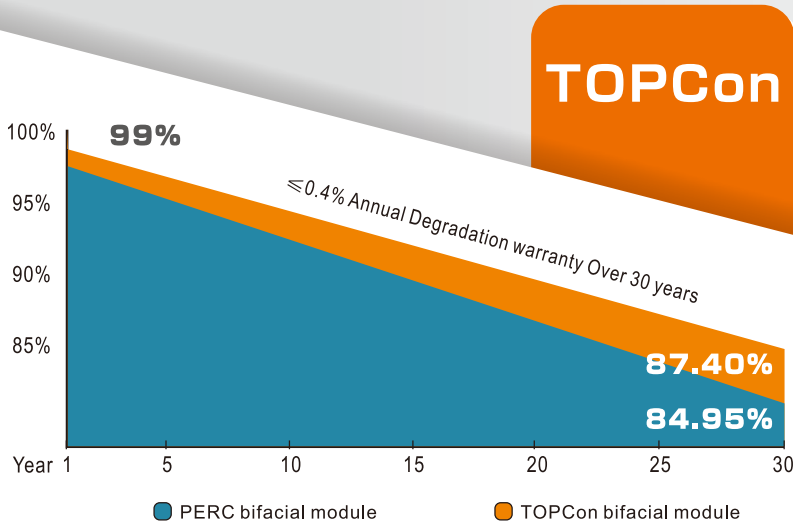


# DOUBLE-GLASS BIFACIAL N-TYPE 700~715 Watt



### Bifacial Mono Module

Capable of generating power at back side, at least 80% efficiency of the front side



### Anti-PID (potential induced degradation)

Passed anti-PID test under 85% damp heat 85% relative humidity for 192 hours



### Great Durability against extreme conditions

Passed salt mist corrosion test, ammonia corrosion test dust & sand test, fire test, all certified by TÜV



### Lower LCOE

Lower shading and resistive loss  
Lower temperature coefficient



### Outstanding mechanical load resistance

2400 Pa wind load, 5400 Pa snow load



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) 700~715Watt

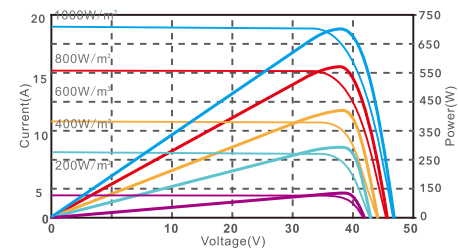


## ELECTRICAL SPECIFICATIONS

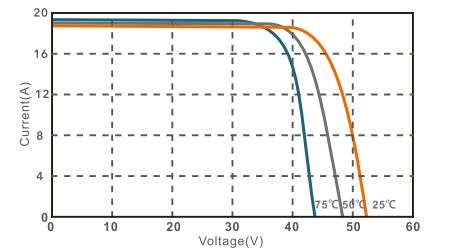
| Module Type                               | UL-700M-132DGN |       | UL-705M-132DGN |       | UL-710M-132DGN |       | UL-715M-132DGN |       |
|-------------------------------------------|----------------|-------|----------------|-------|----------------|-------|----------------|-------|
|                                           | STC*           | NOCT* | STC*           | NOCT* | STC*           | NOCT* | STC*           | NOCT* |
| Maximum Power (Pmax)                      | W 700          | 530   | 705            | 534   | 710            | 538   | 715            | 542   |
| Maximum Power Voltage (Vmp)               | V 40.54        | 37.29 | 40.69          | 37.43 | 40.84          | 37.57 | 40.99          | 37.71 |
| Maximum Power Current (Imp)               | A 17.27        | 14.22 | 17.33          | 14.27 | 17.38          | 14.32 | 17.44          | 14.37 |
| Open-circuit Voltage (Voc)                | V 48.62        | 44.24 | 48.72          | 44.34 | 48.82          | 44.43 | 48.93          | 44.53 |
| Short-circuit Current (Isc)               | A 18.32        | 14.78 | 18.36          | 14.81 | 18.40          | 14.84 | 18.42          | 14.86 |
| Module Efficiency STC                     | % 22.53        |       | 22.70          |       | 22.86          |       | 23.02          |       |
| Operating Temperature                     | -40°C~85°C     |       |                |       |                |       |                |       |
| Maximum system voltage                    | DC1500V(IEC)   |       |                |       |                |       |                |       |
| Maximum series fuse rating                | 35A            |       |                |       |                |       |                |       |
| Power tolerance                           | 0~+5Watt       |       |                |       |                |       |                |       |
| Temperature coefficients of Pmax          | -0.29%/°C      |       |                |       |                |       |                |       |
| Temperature coefficients of Voc           | -0.25%/°C      |       |                |       |                |       |                |       |
| Temperature coefficients of Isc           | 0.046%/°C      |       |                |       |                |       |                |       |
| Nominal operating cell temperature (NOCT) | 43±2°C         |       |                |       |                |       |                |       |

## I-V CURVE[700W]

I-V characteristics at different irradianations



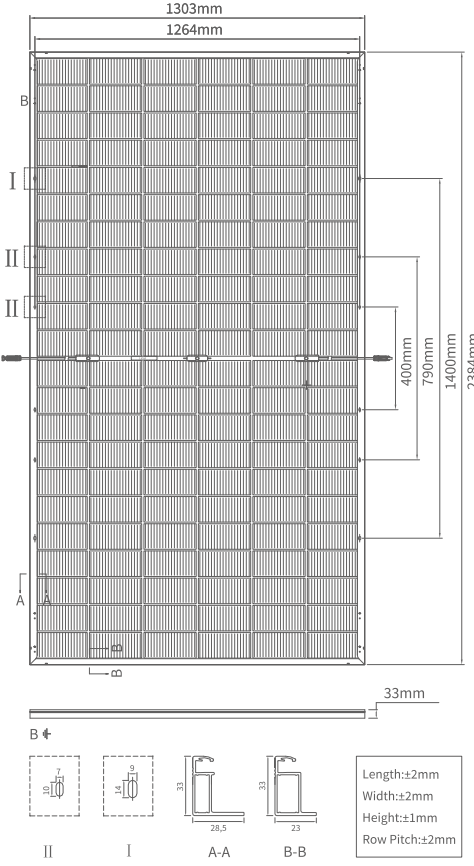
I-V characteristics at different temperature



\*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

## SPECIFICATIONS

|                                    |                                                                                   |
|------------------------------------|-----------------------------------------------------------------------------------|
| Cell Type                          | N type Mono-crystalline                                                           |
| No. of cells                       | 132(6×11×2)                                                                       |
| Dimensions                         | 2384*1303*33mm                                                                    |
| Weight                             | 37.4kg                                                                            |
| Glass                              | 2.0mm+2.0mm, Anti-Reflection Coating, High Transmission, Low Iron, Tempered Glass |
| Junction Box                       | IP68, 3 diodes                                                                    |
| Connector                          | MC4 Compatible                                                                    |
| Cable Length (Including Connector) | 4m<br>Portrait: (+)400/(-)200mm<br>Landscape: (+)1400/(-)1400mm                   |
| Packaging Configuration            | 33pcs/Pallet, 594pcs/40HQ Container                                               |



## Electrical characteristics with different rear side power gain (reference to 700 W front)

| Pmax/W | Voc/V | Isc/A | Vmp/V | Imp/A | Pmax gain |
|--------|-------|-------|-------|-------|-----------|
| 700    | 48.62 | 18.32 | 40.54 | 17.27 | 0         |
| 735    | 48.62 | 19.24 | 40.54 | 18.13 | 5%        |
| 770    | 48.62 | 20.15 | 40.54 | 19.00 | 10%       |
| 805    | 48.62 | 21.07 | 40.54 | 19.86 | 15%       |
| 840    | 48.62 | 21.98 | 40.54 | 20.72 | 20%       |
| 875    | 48.62 | 22.90 | 40.54 | 21.59 | 25%       |
| 910    | 48.62 | 23.82 | 40.54 | 22.45 | 30%       |

