



## TD-(415-435)TG-108HC

MODULE SIZE

**1722\*1134\*30mm**

POWER OUTPUT RANGE

**415W - 435W**

POSITIVE POWER TOLERANCE

**0 - + 3%**

N-TOPCON MONOCRYSTALLINE MODULE

**108 CELL**

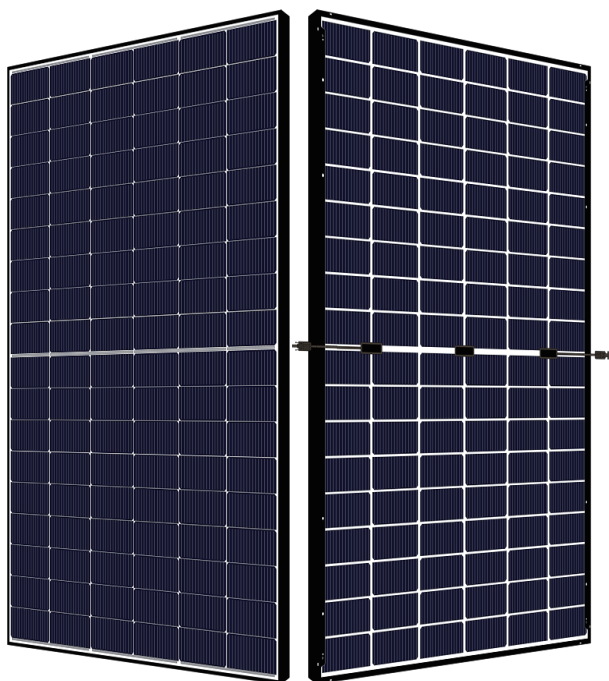
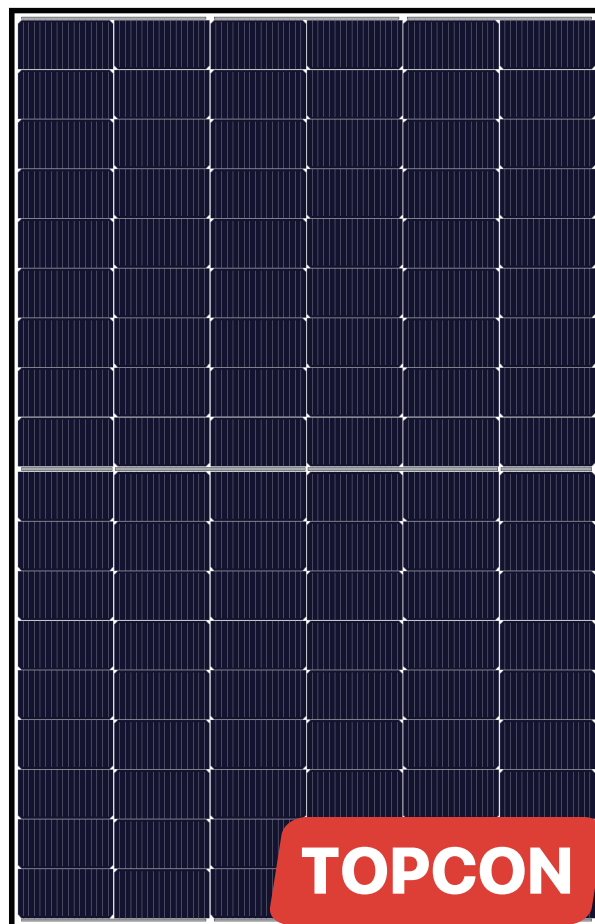
MAXIMUM EFFICIENCY

**22.28%**

LINEAR PERFORMANCE WARRANTY

**15 Year Product Warranty**

**30 Year Linear Power Warranty**



Competitive Low Light  
Performance



Reduced Power Loss by  
Minimising the Effect of  
Shadow Shading



High Density  
Encapsulation



Multi-Busbar  
Technology



2400pa Wind Load  
5400pa Snow Load



LCOE  
BOS Reduced BOS &  
Increased ROI

# TIDE SOLAR

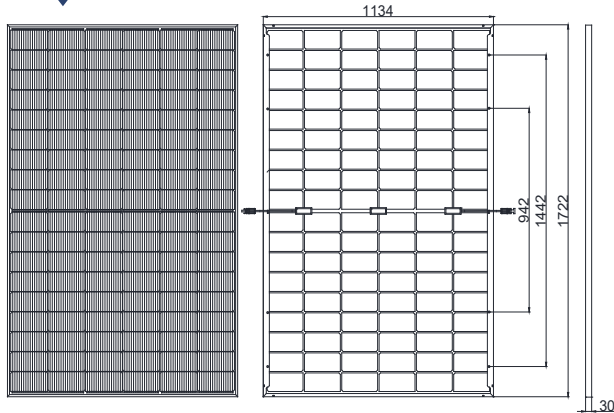
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## DIMENSIONS OF PV MODULE



## STRUCTURAL CHARACTERISTICS

|                 |                                                     |
|-----------------|-----------------------------------------------------|
| Module Size     | 1722x1134x30mm                                      |
| Weight          | 20kg                                                |
| Cell            | single crystal N-topcon 182x91mm(108pieces)         |
| Glass           | 1.6mm/1.6mm                                         |
| Frame           | anodized aluminum alloy                             |
| Junction Box    | IP68, 3 diodes                                      |
| Output Lead     | 4.0mm <sup>2</sup> 300mm(+)/ 300mm(-) or customized |
| Mechanical Load | front 5400pa / back 2400pa                          |

## ELECTRICAL CHARACTERISTICS

| Component Model                                           | TD-415TG-108HC | TD-420TG-108HC | TD-425TG-108HC | TD-430TG-108HC | TD-435TG-108HC |
|-----------------------------------------------------------|----------------|----------------|----------------|----------------|----------------|
| Maximum Power (PMP)                                       | STC            | STC            | STC            | STC            | STC            |
|                                                           | 415            | 420            | 425            | 430            | 435            |
| Open Circuit Voltage (VOC)                                | 37.92          | 38.11          | 38.30          | 38.49          | 38.68          |
| Short Circuit Current (ISC)                               | 13.99          | 14.07          | 14.15          | 14.23          | 14.31          |
| Maximum Power Voltage (VMP)                               | 31.32          | 31.51          | 31.70          | 31.88          | 32.06          |
| Maximum Power Current (IMP)                               | 13.25          | 13.33          | 13.41          | 13.49          | 13.57          |
| Component Efficiency (η)                                  | 21.25          | 21.51          | 21.76          | 22.02          | 22.28          |
| Power Tolerance                                           | (0, +3%)       |                |                |                |                |
| Maximum System Voltage                                    | 1500V DC       |                |                |                |                |
| Maximum Rated Fuse Current                                | 30A            |                |                |                |                |
| STC: Irradiance 1000 W/m² module temperature 25 °C AM=1.5 |                |                |                |                |                |

## TEMPERATURE CHARACTERISTICS

|                                                  |               |
|--------------------------------------------------|---------------|
| Maximum Power Temperature Coefficient            | -0.30 % / °C  |
| Temperature Coefficient Of Open Circuit Voltage  | -0.25 % / °C  |
| Temperature Coefficient Of Short Circuit Current | +0.046 % / °C |
| Working Temperature                              | -40 ~ +85 °C  |
| Nominal Operating Cell Temperature (NOCT)        | 45 ± 2 °C     |
| Bifacial-Factor                                  | 80% ± 10%     |

## PACKING METHOD

|                                 |                |
|---------------------------------|----------------|
| Module Size                     | 1722x1134x30mm |
| Container                       | 40' HQ         |
| Quantity Per Pallet             | 36             |
| Number Of Pallets Per Container | 26             |
| Quantity Per Container          | 936            |

## I-V Curve

