



**TDP772-(535-560)G**

MODULE SIZE

**2278\*1134\*30mm**

POWER OUTPUT RANGE

**535W - 560W**

POSITIVE POWER TOLERANCE

**0 - + 3%**

N-TOPCON MONOCRYSTALLINE MODULE

**144 CELL**

MAXIMUM EFFICIENCY

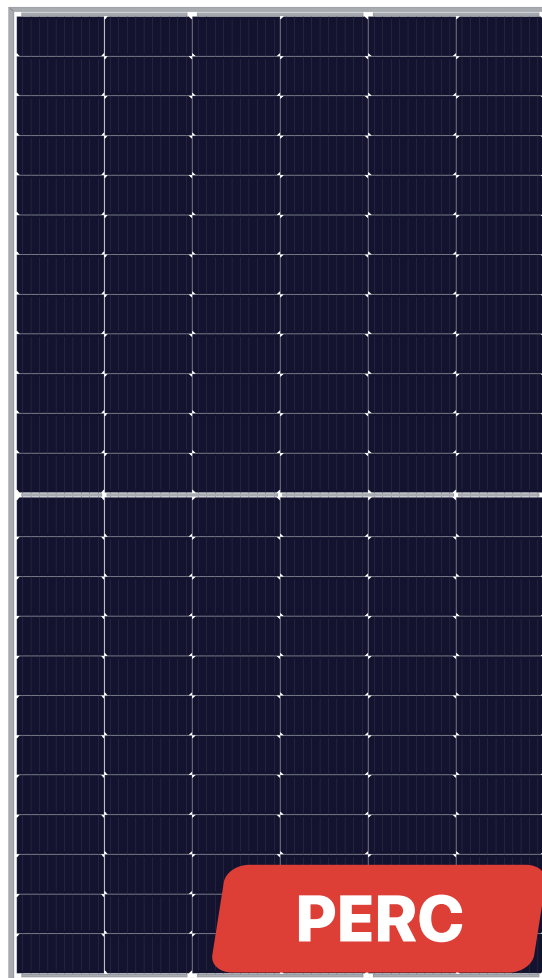
**21.68%**

LINEAR PERFORMANCE WARRANTY

**12 Year Product Warranty**

**30 Year Linear Power Warranty**

**≤2%** 1st Year Degradation **≤0.5%** Annual Degradation



Competitive Low Light Performance



Reduced Power Loss by Minimising the Effect of Shadow Shading



High Density Encapsulation



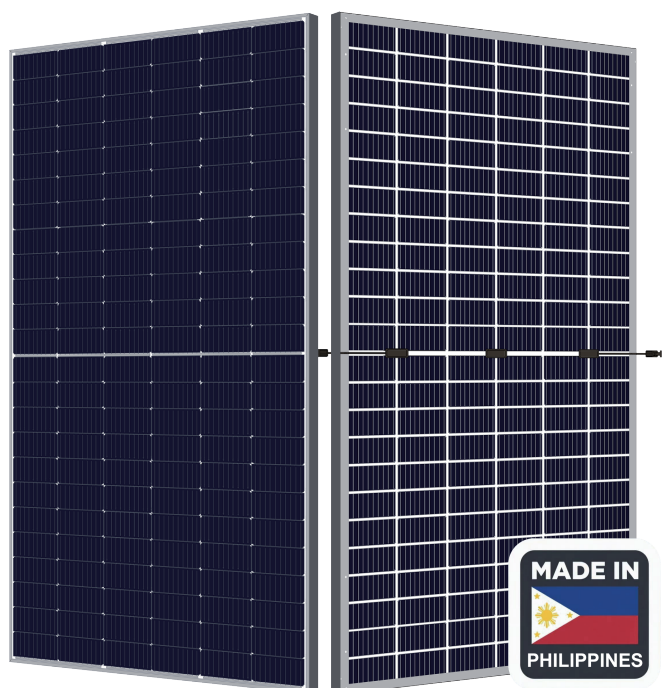
Multi-Busbar Technology



2400pa Wind Load  
5400pa Snow Load



Reduced BOS & Increased ROI



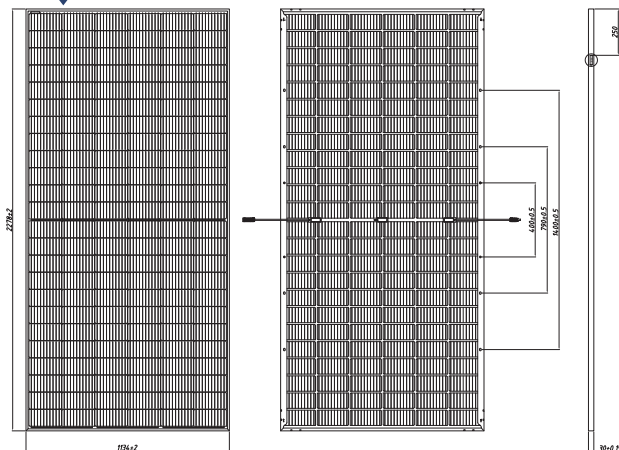
**TIDE  
SOLAR**

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## DIMENSIONS OF PV MODULE



## STRUCTURAL CHARACTERISTICS

|                 |                                                     |
|-----------------|-----------------------------------------------------|
| Module Size     | 2278x1134x30mm                                      |
| Weight          | 31.0Kg                                              |
| Cell            | PERC 182.2x91.875mm(144pieces)                      |
| Glass           | 2.0mm/2.0mm semi-tempered glass                     |
| 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*                         |

\*Refer to Tidesolar installation manual for details

## ELECTRICAL CHARACTERISTICS

| Component Model             | TDP772-535G |       | TDP772-540G |       | TDP772-545G |       | TDP772-550G |       | TDP772-555G |       | TDP772-560G |       |
|-----------------------------|-------------|-------|-------------|-------|-------------|-------|-------------|-------|-------------|-------|-------------|-------|
| Maximum Power (Pmax)        | STC         | BNPI  | STC         | BNPI  | STC         | BNPI  | STC         | BNPI  | STC         | BNPI  | STC         | BNPI  |
|                             | 535         | 586   | 540         | 591   | 545         | 596   | 550         | 602   | 555         | 608   | 560         | 613   |
| Open Circuit Voltage (Voc)  | 49.35       | 49.35 | 49.50       | 49.50 | 49.65       | 49.65 | 49.80       | 49.80 | 49.95       | 49.95 | 50.10       | 50.10 |
| Short Circuit Current (sc)  | 13.78       | 15.08 | 13.85       | 15.16 | 13.92       | 15.24 | 13.98       | 15.30 | 14.04       | 15.37 | 14.10       | 15.43 |
| Maximum Power Voltage (Vmp) | 41.50       | 41.50 | 41.65       | 41.65 | 41.80       | 41.80 | 41.95       | 41.95 | 42.10       | 42.10 | 42.25       | 42.25 |
| Maximum Power Current (Imp) | 12.90       | 14.12 | 12.97       | 14.20 | 13.04       | 14.27 | 13.12       | 14.36 | 13.19       | 14.44 | 13.25       | 14.50 |
| Component Efficiency (η)    | 20.71       |       | 20.90       |       | 21.10       |       | 21.29       |       | 21.48       |       | 21.68       |       |
| Power Tolerance             | (0, +3%)    |       |             |       |             |       |             |       |             |       |             |       |
| Maximum System Voltage      | 1500V DC    |       |             |       |             |       |             |       |             |       |             |       |
| Maximum Rated Fuse Current  | 30A         |       |             |       |             |       |             |       |             |       |             |       |

STC: Irradiance 1000 W/m<sup>2</sup> module temperature 25 °C AM=1.5 BNPI: Irradiance: Front 1000W/m<sup>2</sup>, Rear 135W/m<sup>2</sup>, Cell Temperature 25°C, AM=1.5

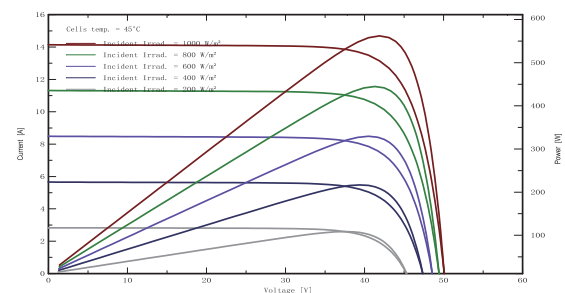
## TEMPERATURE CHARACTERISTICS

|                                                  |              |
|--------------------------------------------------|--------------|
| Maximum Power Temperature Coefficient            | -0.35 % / °C |
| Temperature Coefficient Of Open Circuit Voltage  | -0.27 % / °C |
| Temperature Coefficient Of Short Circuit Current | +0.05 % / °C |
| Working Temperature                              | -40 ~ +85 °C |
| Nominal Operating Cell Temperature (NOCT)        | 45 ± 2 °C    |
| Bifacial-Factor                                  | 70% ± 5%     |

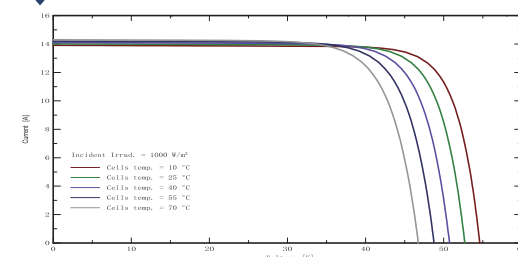
## PACKING METHOD

|                                 |                |
|---------------------------------|----------------|
| Module Size                     | 2278x1134x30mm |
| Container                       | 40' HQ         |
| Quantity Per Pallet             | 36             |
| Number Of Pallets Per Container | 20/16(US)      |
| Quantity Per Container          | 720/576(US)    |

## I-V/P-V CURVE AT DIFFERENT IRRADANCE(560W)



## I-V CURVE AT DIFFERENT WORKING TEMPERATURE(560W)



The specification and key features described in this datasheet may deviate slightly and are not guaranteed. Due to ongoing innovation, R&D enhancement, Tidesolar Philippines Corporation reserves the right to make any adjustment to the information described herein at any time without notice.