



## KEY FEATURES



### 10BB Half-cut Cell Technology

New circuit design, lower internal current, lower  $R_s$  loss  
Ga doped wafer, attenuation <2% (1st year) / 0.45% (Linear)



### Industry Leading High Yield

Bifacial PERC cell technology,  
5%-25% more yield depends on different conditions



### Excellent Anti-PID Performance

2 times of industry standard Anti-PID test



## ELECTRICAL CHARACTERISTICS

| Testing Condition             | STC   | NMOT  | STC   | NMOT  | STC   | NMOT  | STC   | NMOT  | STC   | NMOT  |
|-------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Maximum Power (Pmax/W)        | 530   | 395   | 535   | 398   | 540   | 402   | 545   | 406   | 550   | 410   |
| Operating Voltage (Vmpp/V)    | 41.32 | 38.6  | 41.48 | 38.7  | 41.64 | 38.8  | 41.80 | 39.0  | 41.96 | 39.1  |
| Operating Current (Impp/A)    | 12.83 | 10.24 | 12.90 | 10.30 | 12.97 | 10.36 | 13.04 | 10.41 | 13.11 | 10.47 |
| Open-Circuit Voltage (Voc/V)  | 49.32 | 46.4  | 49.46 | 46.5  | 49.60 | 46.7  | 49.76 | 46.8  | 49.92 | 47.0  |
| Short-Circuit Current (Isc/A) | 13.72 | 11.06 | 13.79 | 11.12 | 13.86 | 11.17 | 13.93 | 11.23 | 14.00 | 11.28 |
| Module Efficiency (%)         | 20.50 |       | 20.70 |       | 20.90 |       | 21.10 |       | 21.30 |       |

STC: Irradiance 1000W/m<sup>2</sup>, Spectra at AM1.5, Module Temperature 25 °C. Power output tolerance: 0~+5W, Test uncertainty for Pmax: ±3%  
 NMOT: Irradiance 800W/m<sup>2</sup>, Spectra at AM1.5, Ambient Temperature 20 °C, Wind speed 1m/s

## REAR SIDE POWER GAIN(REFERENCE TO 530W FRONT)

| Pmax gain | 5%    | 10%   | 15%   | 20%   | 25%   |
|-----------|-------|-------|-------|-------|-------|
| Pmax/W    | 557   | 583   | 610   | 636   | 663   |
| Vmpp/V    | 41.32 | 41.32 | 41.32 | 41.32 | 41.32 |
| Impp/A    | 13.47 | 14.11 | 14.75 | 15.40 | 16.04 |
| Voc/V     | 49.32 | 49.32 | 49.32 | 49.32 | 49.32 |
| Isc/A     | 14.41 | 15.09 | 15.78 | 16.46 | 17.15 |

## MECHANICAL CHARACTERISTICS

|                   |   |
|-------------------|---|
| Cell Type         | Monocrystalline Silicon (10Busbar)  |
| No. of Cells      | 144pcs in series (6*24)   |
| Module Dimensions | 2278*1134*30mm (89.69*44.65*1.18inches)                                     |
| Weight            | 31.8kg (70.11lbs.)  |
| Front Glass       | 2.0mm AR Coating Semi-tempered Glass  |
| Back Glass        | 2.0mm Glazed Semi-tempered Glass  |
| Frame             | Anodized Aluminium Alloy  |
| Junction Box      | IP68, 3 Bypass Diodes   |
| Output Cables     | 4mm <sup>2</sup> (IEC), 12AWG(UL)<br>350mm(+),250mm(-) or Customized Length |
| Connectors        | T01/LJQ-3-CSY/MC4/MC4-EV02  |

## APPLICATION CONDITIONS

|                           |                                     |
|---------------------------|-------------------------------------|
| Maximun System Voltage    | 1500V/DC                            |
| Operating Temperature     | -40°C~+85°C                         |
| Maximun Series Fuse       | 30A                                 |
| Safety Protection Class   | Class II                            |
| Mechanical Load           | Front side 5400Pa, Back side 2400Pa |
| Refer. Bifaciality Factor | 70%±5%                              |

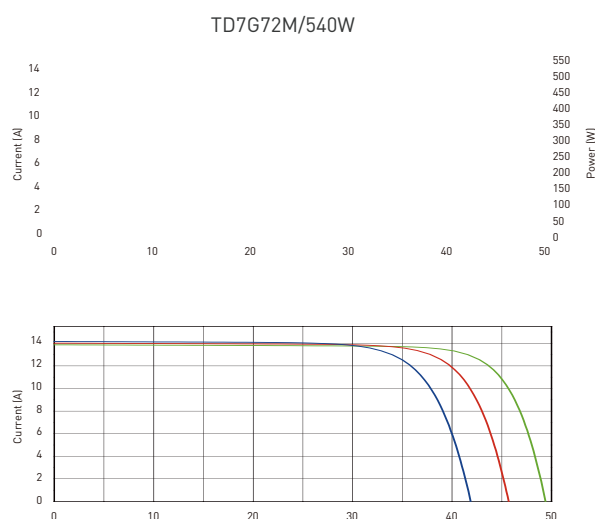
## TEMPERATURE CHARACTERISTICS

|  |            |
|--|------------|
| Temperature Coefficient of Pmax            | -0.35%/°C  |
| Temperature Coefficient of Voc             | -0.26%/°C  |
| Temperature Coefficient of Isc             | +0.048%/°C |
| Nominal Module Operating Temperature(NMOT) | 43±2°C     |

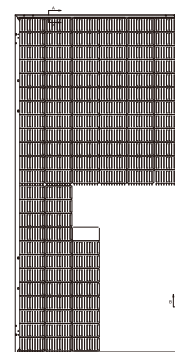
## PACKING CONFIGURATION

|                             |     |         |
|-----------------------------|-----|---------|
| Pieces Per Pallet           | 36  | 36(USA) |
| Pieces Per Container(40'HQ) | 720 | 576     |

## I-V CURVE



## TECHNICAL DRAWINGS



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