

# BIPRO

TD6I60M **120-cell**

**355 - 375W**

bifacial dual glass

9BB half-cut mono perc



## KEY FEATURES



### 9BB half-cut cell technology

New circuit design, lower internal current, lower Rs 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 by TUV SUD



### Wider application

No water-permeability and high wear-resistance,  
can be widely used in high-humid, windy and dusty area



### IP68 junction box

High waterproof level

## SYSTEM & PRODUCT CERTIFICATES

- IEC 61215 / IEC 61730 / UL 61730
- ISO 9001: 2015 Quality Management System
- ISO 14001: 2015 Environment Management System
- ISO 45001: 2018 Occupational Health and Safety Management Systems

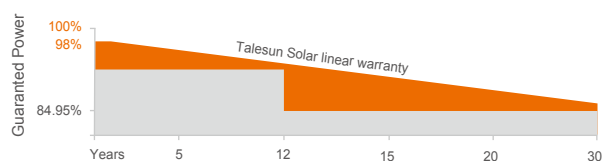


## PERFORMANCE WARRANTY



Linear Performance Warranty

Standard Performance Warranty



## ELECTRICAL PARAMETERS

### Performance at STC (Power Tolerance 0 ~ +3%)

|                                |       |       |       |       |       |
|--------------------------------|-------|-------|-------|-------|-------|
| Maximum Power (Pmax/W)         | 355   | 360   | 365   | 370   | 375   |
| Operating Voltage (Vmpp/V)     | 34.0  | 34.3  | 34.6  | 34.9  | 35.2  |
| Operating Current (Impp/A)     | 10.45 | 10.50 | 10.56 | 10.61 | 10.66 |
| Open-Circuit Voltage (Voc/V)   | 40.5  | 40.7  | 40.9  | 41.1  | 41.3  |
| Short-Circuit Current (Isc/A)  | 11.10 | 11.15 | 11.20 | 11.26 | 11.31 |
| Module Efficiency $\eta_m(\%)$ | 19.5  | 19.8  | 20.0  | 20.3  | 20.6  |

### Performance at NMOT

|                               |      |      |      |      |      |
|-------------------------------|------|------|------|------|------|
| Maximum Power (Pmax/W)        | 264  | 267  | 271  | 274  | 278  |
| Operating Voltage (Vmpp/V)    | 31.4 | 31.6 | 31.9 | 32.1 | 32.3 |
| Operating Current (Impp/A)    | 8.43 | 8.46 | 8.50 | 8.55 | 8.60 |
| Open-Circuit Voltage (Voc/V)  | 37.7 | 37.9 | 38.0 | 38.2 | 38.4 |
| Short-Circuit Current (Isc/A) | 8.96 | 9.00 | 9.04 | 9.09 | 9.13 |

STC: Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, Air Mass AM1.5 NMOT: Irradiance at 800W/m<sup>2</sup>, Ambient Temperature 20°C, Air Mass AM1.5, Wind Speed 1m/s

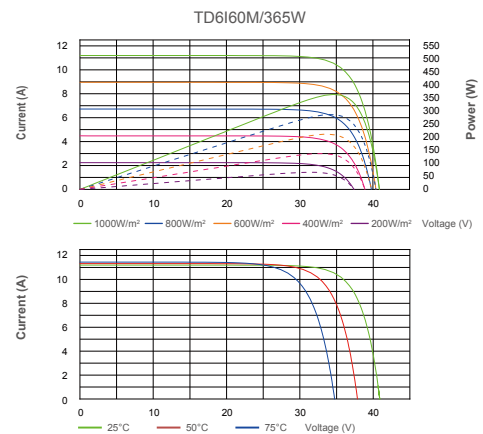
### Electrical characteristics with different rear side power gain (refer to 360W front)

| Pmax gain | Pmax/W | Vmpp/V | Impp/A | Voc/V | Isc/A |
|-----------|--------|--------|--------|-------|-------|
| 5%        | 378    | 33.9   | 11.15  | 40.5  | 11.90 |
| 10%       | 397    | 33.9   | 11.74  | 40.5  | 12.46 |
| 15%       | 419    | 33.9   | 12.38  | 40.5  | 13.03 |
| 20%       | 434    | 34.1   | 12.74  | 40.7  | 13.60 |
| 25%       | 452    | 34.1   | 13.28  | 40.7  | 14.16 |

## MECHANICAL SPECIFICATION

|                                 |   |
|---------------------------------|---|
| Cell Type                       | Monocrystalline   |
| Cell Dimensions                 | 166*166mm   |
| Cell Arrangement                | 120 (6*20)  |
| Weight                          | 23.5kg (51.8lbs)  |
| Module Dimensions               | 1755*1038*30mm (69.09*40.87*1.18inches)                     |
| Cable Length                    | Portrait 300mm/Landscape 1200mm/Customized                  |
| Cable Cross Section Size        | TUV: 4mm <sup>2</sup> (0.006inches <sup>2</sup> )/UL: 12AWG |
| Front Glass                     | 2.0mm (0.08 inches) AR Coating Semi-tempered Glass          |
| Back Glass                      | 2.0mm (0.08 inches) Glazed Semi-tempered Glass              |
| No. of Bypass Diodes            | 3/6   |
| Packing Configuration (1)       | 35pcs/carton, 910pcs/40hq                                   |
| Packing Configuration (for USA) | 35pcs/carton, 770pcs/40hq                                   |
| Frame                           | Anodized Aluminium Alloy                                    |
| Junction Box                    | IP68  |

## I-V CURVE



## OPERATING CONDITIONS

|  |  |
|--|--|
| Maximum System Voltage   | 1500V/DC(IEC)                              |
| Operating Temperature  | -40°C ~ +85°C                              |
| Maximum Fuse   | 25A  |
| Static Loading   | Snow Loading: 5400Pa/ Wind Loading: 2400Pa |
| Conductivity at Ground   | ≤0.1Ω                                      |
| Safety Class   | II   |
| Resistance   | ≥100MΩ                                     |
| Connector  | T01/LJQ-3-CSY/MC4/MC4-EVO2                 |
| Backside Output Ratio*   | 70% ± 5%                                   |
| *Under STC: Backside Output Ratio = $P_{max(rear)} / P_{max(front)}$ |  |

## TEMPERATURE COEFFICIENT

|                              |            |
|------------------------------|------------|
| Temperature Coefficient Pmax | -0.36%/°C  |
| Temperature Coefficient Voc  | -0.26%/°C  |
| Temperature Coefficient Isc  | +0.043%/°C |
| NMOT                         | 43±2°C     |

## TECHNICAL DRAWINGS

