

# BIPRO

## 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 System



## PERFORMANCE



### Excellent Anti-PID Performance

Anti PID 192 hours Anti-PID test

### Wider Application

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

## ELECTRICAL CHARACTERISTICS

| Testing Condition             | STC   | NMOT  | STC   | NMOT  | STC   | NMOT  | STC   | NMOT  | STC   | NMOT  |
|-------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Maximum Power (Pmax/W)        | 620   | 473   | 625   | 478   | 630   | 482   | 635   | 486   | 640   | 490   |
| Operating Voltage (Vmpp/V)    | 36.20 | 33.90 | 36.40 | 34.30 | 36.60 | 34.50 | 36.80 | 34.70 | 37.00 | 35.00 |
| Operating Current (Impp/A)    | 17.13 | 13.94 | 17.19 | 13.95 | 17.22 | 13.96 | 17.26 | 13.98 | 17.30 | 14.00 |
| Open-Circuit Voltage (Voc/V)  | 43.20 | 40.90 | 43.50 | 41.20 | 43.90 | 41.60 | 44.20 | 41.90 | 44.50 | 42.10 |
| Short-Circuit Current (Isc/A) | 18.18 | 14.65 | 18.21 | 14.68 | 18.24 | 14.70 | 18.27 | 14.73 | 18.30 | 14.75 |
| Module Efficiency (%)         | 21.90 |       | 22.10 |       | 22.30 |       | 22.40 |       | 22.60 |       |

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

## REAR SIDE POWER GAIN(REFERENCE TO 630W FRONT)

|           |       |       |       |       |       |
|-----------|-------|-------|-------|-------|-------|
| Pmax gain | 5%    | 10%   | 15%   | 20%   | 25%   |
| Pmax/W    | 662   | 693   | 725   | 756   | 788   |
| Vmpp/V    | 36.60 | 36.60 | 36.60 | 36.60 | 36.60 |
| Impp/A    | 18.08 | 18.94 | 19.80 | 20.66 | 21.53 |
| Voc/V     | 43.90 | 43.90 | 43.90 | 43.90 | 43.90 |
| Isc/A     | 19.15 | 20.06 | 20.98 | 21.89 | 22.80 |

## MECHANICAL CHARACTERISTICS

|                   |   |
|-------------------|---|
| Cell Type         | N-type Mono-Crystallin (18Busbar)   |
| No. of Cells      | 120pcs in series (6*20)   |
| Module Dimensions | 2172*1303*33mm (85.51*51.30*1.30inches)   |
| Weight            | 34.9kg (76.94lbs.)  |
| 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>350(+),280(-)mm in Length 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       | 35A                                 |
| Safety Protection Class   | Class                               |
| Mechanical Load           | Front side 5400Pa, Back side 2400Pa |
| Refer. Bifaciality Factor | 80%±5%                              |

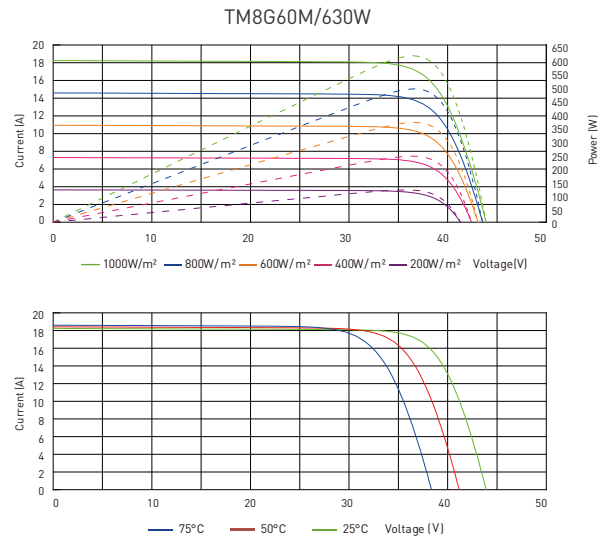
## TEMPERATURE CHARACTERISTICS

|  |            |
|--|------------|
| Temperature Coefficient of Pmax            | -0.29%/°C  |
| Temperature Coefficient of Voc             | -0.24%/°C  |
| Temperature Coefficient of Isc             | +0.043%/°C |
| Nominal Module Operating Temperature(NMOT) | 43±2°C     |

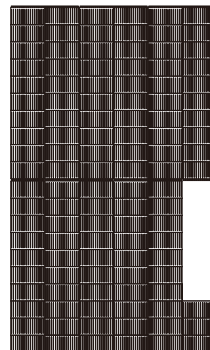
## PACKING CONFIGURATION

|                             |     |         |
|-----------------------------|-----|---------|
| Pieces Per Pallet           | 33  | 33(USA) |
| Pieces Per Container(40'HQ) | 594 | 528     |

## Electrical Performance



## TECHNICAL DRAWINGS



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