



Linear Performance Warranty



## ELECTRICAL CHARACTERISTICS

| Testing Condition             | STC   | NMOT  | STC   | NMOT  | STC   | NMOT  | STC   | NMOT  | STC   | NMOT  |
|-------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Maximum Power (Pmax/W)        | 535   | 398   | 540   | 402   | 545   | 406   | 550   | 410   | 555   | 413   |
| Operating Voltage (Vmpp/V)    | 41.48 | 38.70 | 41.64 | 38.80 | 41.80 | 39.00 | 41.96 | 39.10 | 42.12 | 39.30 |
| Operating Current (Impp/A)    | 12.90 | 10.30 | 12.97 | 10.36 | 13.04 | 10.41 | 13.11 | 10.47 | 13.18 | 10.52 |
| Open-Circuit Voltage (Voc/V)  | 49.46 | 46.50 | 49.60 | 46.70 | 49.76 | 46.80 | 49.92 | 47.00 | 50.08 | 47.10 |
| Short-Circuit Current (Isc/A) | 13.79 | 11.12 | 13.86 | 11.17 | 13.93 | 11.23 | 14.00 | 11.28 | 14.07 | 11.34 |
| Module Efficiency (%)         | 20.70 |       | 20.90 |       | 21.1  |       | 21.30 |       | 21.50 |       |

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 540W FRONT)

| Pmax gain | 5%    | 10%   | 15%   | 20%   | 25%   |
|-----------|-------|-------|-------|-------|-------|
| Pmax/W    | 567   | 594   | 621   | 648   | 675   |
| Vmpp/V    | 41.64 | 41.64 | 41.64 | 41.64 | 41.64 |
| Impp/A    | 13.62 | 14.27 | 14.92 | 15.56 | 16.21 |
| Voc/V     | 49.60 | 49.60 | 49.60 | 49.60 | 49.60 |
| Isc/A     | 14.55 | 15.25 | 15.94 | 16.63 | 17.33 |

## MECHANICAL CHARACTERISTICS

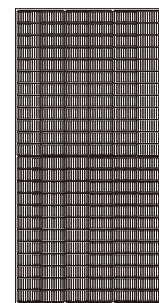
|                   |  |
|-------------------|--|
| Cell Type         | Monocrystalline Silicon (10Busbar)   |
| No. of Cells      | 144pcs in series (6*24)  |
| Module Dimensions | 2278*1134*35mm<br>(89.69*44.65*1.38inches)                                 |
| Weight            | 29kg (61.9lbs.)  |
| Front Glass       | 3.2mm AR Coating 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   |

## I-V CURVE

## APPLICATION CONDITIONS

|                              |                |
|------------------------------|----------------|
| Maximun System Voltage       | 1000V/1500V/DC |
| Operating Temperature        | -40°C~+85°C    |
| Maximun Series Fuse          | 30A            |
| Safety Protection Class      | Class II       |
| Mechanical Load (Front side) | 5400Pa         |
| Mechanical Load (Back side)  | 2400Pa         |
| Refer. Bifaciality Factor    | 70%+5%/-10%    |

## TECHNICAL DRAWINGS



## 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           | 31  | 31(USA) |
| Pieces Per Container(40'HQ) | 620 | 620     |



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