

# ET BLACK MODULE

## Polycrystalline

|              |      |
|--------------|------|
| ET-P672300WB | 300W |
| ET-P672295WB | 295W |
| ET-P672290WB | 290W |
| ET-P672285WB | 285W |
| ET-P672280WB | 280W |
| ET-P672275WB | 275W |
| ET-P672270WB | 270W |



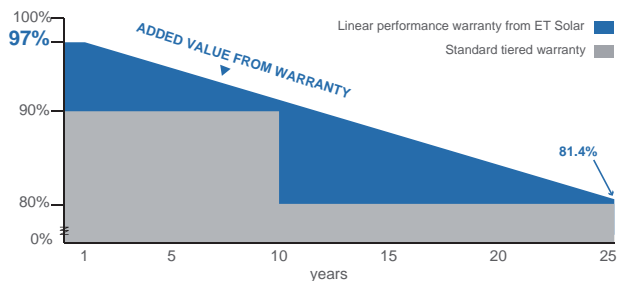
\* The standard black polycrystalline modules are made with white backsheet and black frames. Upon request, they can be also made with black backsheet and black frames.

### Features

- Low iron tempered safety glass, self-cleaning & anti-reflective layer with higher light absorption and minimal surface dust
- Anodized aluminum frame improving corrosion resistance
- Industry leading performance at low irradiation environment by Photon test
- 0 to +5W positive tolerance for mainstream products
- Withstand high wind loads and snow loads
- EL screening to eliminate product defects
- Cell encapsulation EVA Gel Content and Peel Strength Test
- Potential-Induced Degradation (PID) free for customizable solar module

### Benefits

- 25-year transferrable power output warranty warrants no more than 0.65% $\times P_{max}$  lower than the previous year
- 10-year warranty on materials and workmanship
- Product liability insurance
- Local technical support
- Local warehousing
- 48 hour-response service



IEC 61215 Ed.2  
IEC 61730  
IEC 61701



Towards Excellence

M/ET-CP-EN-EU2013V1

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## ELECTRICAL SPECIFICATIONS



| Model Type                         | ET-P672300WB | ET-P672295WB | ET-P672290WB | ET-P672285WB | ET-P672280WB | ET-P672275WB | ET-P672270WB |
|------------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Peak Power (Pmax)                  | 300W         | 295W         | 290W         | 285W         | 280W         | 275W         | 270W         |
| Module Efficiency                  | 15.46%       | 15.20%       | 14.95%       | 14.69%       | 14.43%       | 14.17%       | 13.92%       |
| Maximum Power Voltage (Vmp)        | 36.68V       | 36.17V       | 35.92V       | 35.86V       | 35.54V       | 35.52V       | 35.48V       |
| Maximum Power Current (Imp)        | 8.18A        | 8.16A        | 8.08A        | 7.95A        | 7.88A        | 7.75A        | 7.61A        |
| Open Circuit Voltage (Voc)         | 44.89V       | 44.78V       | 44.75V       | 44.42V       | 44.27V       | 44.18V       | 44.16V       |
| Short Circuit Current (Isc)        | 8.72A        | 8.68A        | 8.62A        | 8.55A        | 8.48A        | 8.26A        | 8.21A        |
| Power Tolerance                    | -1% to +3%   | 0 to +5W     | 0 to +5W     | 0 to +5W     | 0 to +5W     | 0 to +5W     | 0 to +5W     |
| Maximum System Voltage             | DC 1000V     |              |              |              |              |              |              |
| Nominal Operating Cell Temperature | 45.3±2°C     |              |              |              |              |              |              |
| Series Fuse Rating (A)             | 20A          |              |              |              |              |              |              |
| Number of Bypass Diode             | 3            |              |              |              |              |              |              |

## MECHANICAL SPECIFICATIONS

|                 |  |
|-----------------|--|
| Cell type       | 156mm x 156mm                            |
| Number of cells | 72 cells in series                       |
| Weight          | 24.07 kg(53.08 lbs) /23.05KG(50.82 lbs)  |
| Dimensions      | 1956×992×50mm<br>(77.01×39.06×1.97inch)  |
|                 | 1956×992×40mm<br>(77.01×39.06×1.57 inch) |
| Max Load        | 5400Pascals ( 112 lb/ft <sup>2</sup> )   |

## TEMPERATURE COEFFICIENT

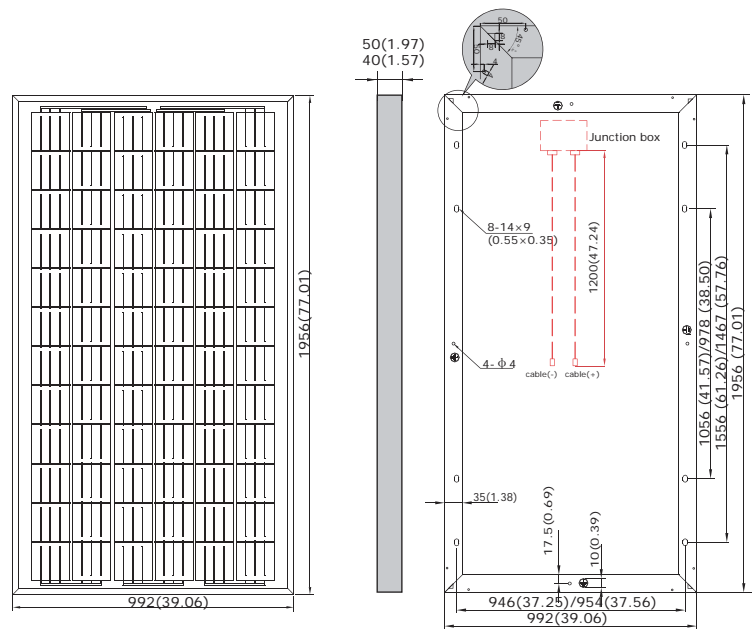
|                                |            |
|--------------------------------|------------|
| Temp. Coeff. of Isc (TK Isc)   | 0.04 %/°C  |
| Temp. Coeff. of Voc (TK Voc)   | -0.34 %/°C |
| Temp. Coeff. of Pmax (TK Pmax) | -0.44 %/°C |

## BIG CARTON PACKING MANNER

| Container            | 20' GP |      | 40' GP |      |
|----------------------|--------|------|--------|------|
|                      | 40mm   | 50mm | 40mm   | 50mm |
| Frame thickness      | 40mm   | 50mm | 40mm   | 50mm |
| Pieces per Pallet    | 26     | 21   | 26     | 21   |
| Pieces per Container | 260    | 210  | 572    | 462  |

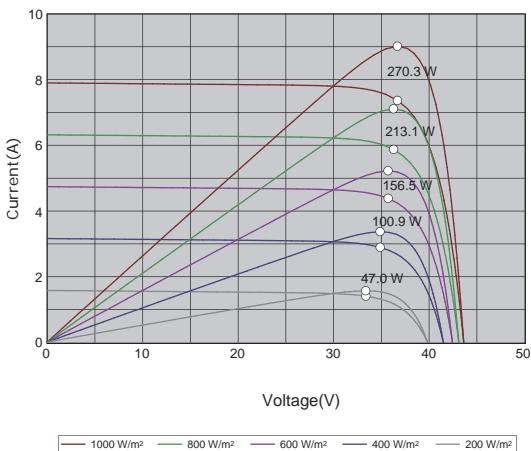
## PHYSICAL CHARACTERISTICS Unit:mm (inch)

\* The former size is for 50mm frame module while the later size for 40mm frame module

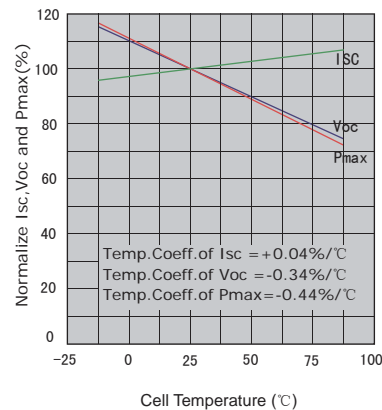


## ELECTRICAL CHARACTERISTICS

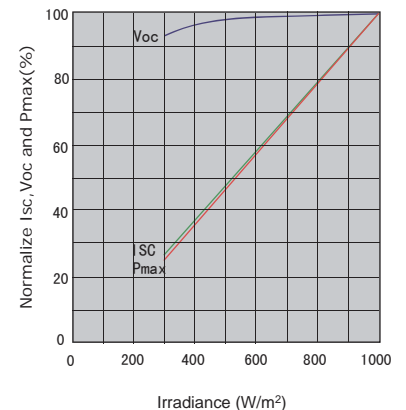
Electrical performance  
(cell temperature: 25°C)



Temperature dependence of Isc,  
Voc and Pmax



Irradiance dependence of Isc,  
Voc and Pmax (cell temperature: 25°C)



Note: the specifications are obtained under the Standard Test Conditions (STCs): 1000 W/m<sup>2</sup> solar irradiance, 1.5 Air Mass, and cell temperature of 25°C.

The NOCT is obtained under the Test Conditions : 800 W/m<sup>2</sup>, 20°C ambient temperature, 1 m/s wind speed, AM 1.5 spectrum.

Please contact [support@etsolar.com](mailto:support@etsolar.com) for technical support. The parameters are for reference only, and are subject to change without notice or obligation.