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# **EnergyPal**

## **Solar Panel Guide Specification Data Sheet**

**Malaysian Solar Resources Sdn Bhd**

**MYS-72P/B3/CF-295-305**

**MYS-72P/B3/CF-295**

Also available on the web at

[EnergyPal.com/malaysian-solar-resources-sdn-bhd-solar-panels/mys-72p-b3-cf-295](http://EnergyPal.com/malaysian-solar-resources-sdn-bhd-solar-panels/mys-72p-b3-cf-295)



## Multi-Crystalline Photovoltaic Module High efficiency based on leading innovative photovoltaic technologies



**MYS-72P/B3/CF-305**  
**MYS-72P/B3/CF-300**  
**MYS-72P/B3/CF-295**

### High Quality of Pv Module

The MYS-72P/B3/CF-305, MYS-72P/B3/CF-300 and MYS-72P/B3/CF-295 are distinguished by multi-crystalline solar cells with high efficiency up to 15.42% for high output per square meter of module area. MSR delivers modules with positive tolerance from 0 - 4.99 watt, modules of the highest quality would be able to provide with this level of reliability.

- ▶ Modules on high output quality
  - ▶ High efficiency based on leading innovative photovoltaic technologies
  - ▶ Maximum yields and longevity due to 100% hotspot prevention
  - ▶ Excellent performance due to outstanding low-light behavior
  - ▶ Withstand high wind pressure and extreme temperature variations
  - ▶ High transparent 3.2mm / 4mm low-iron tempered glass
  - ▶ Unique technology enable no water freezing and warping do not occur
  - ▶ Aesthetic appearance
  - ▶ 25 years power output warranty (long life span)
  - ▶ PV produces energy without emissions (green house gases) and noise free
- TUV Rheiland certified modules accordance to IEC 61215 ed. 2 2005, IEC 61730, Part 1, 2004 and IEC 61701 Salt mist corrosion testing of photovoltaic (PV) modules.



## TECHNICAL DATA

### Mechanical Parameters

|                                |           |                         |                  |
|--------------------------------|-----------|-------------------------|------------------|
| overall dimensions (frame)     | l x w x t | 1984mm x 997mm x 42mm   | mm               |
| Weight                         | Mass      | 23.4 +/- 1 / 27.4 +/- 1 | Kg               |
| Tested static back load (1 h)  | Pressure  | 2'400                   | N/m <sup>2</sup> |
| Tested static front load (1 h) | Pressure  | 2'400                   | N/m <sup>2</sup> |

### Components

|  |   |
|--|---|
| Glass  | Tempered 3.2mm / 4mm solar glass                      |
| Photovoltaic cells   | 72 multi-crystalline 6" silicon-cells (156mm x 156mm) |
| Frame  | MSR Standard, Anodized Aluminium                      |
| Junction box   | Tyco (3 bypass diode) (115mm x 110mm x 22.5mm)        |
| Plug connector type / Cable length / cross section size (mm <sup>2</sup> ) | MC4 (Tyco Solarlok) / 2 x 1000mm / 4mm <sup>2</sup>   |

### Certificates, Safety Class and Warranty

|                     |   |                               |
|---------------------|---|-------------------------------|
| IEC 61215 ed. 2     | IEC 61215 ed. 2   | = Registration No. PV60033123 |
| IEC 61730           | IEC 61730   | = Registration No. PV60033124 |
| IEC 61701           | IEC 61701   | = Registration No. PV60037080 |
| CE certified        | CE Compliance   | = SHEM010060074501TXC         |
| Safety class        | II  |                               |
| IP protection level | 65  |                               |
| Warranty            | 10 years product warranty<br>10 years 90% nominal performance<br>25 years 80% nominal performance |                               |

### Electrical Data at Standard Testing Conditions (STC) 1

1) Irradiance 1000 W/m<sup>2</sup>, module temperature 25°C, spectrum at air-mass AM 1.5

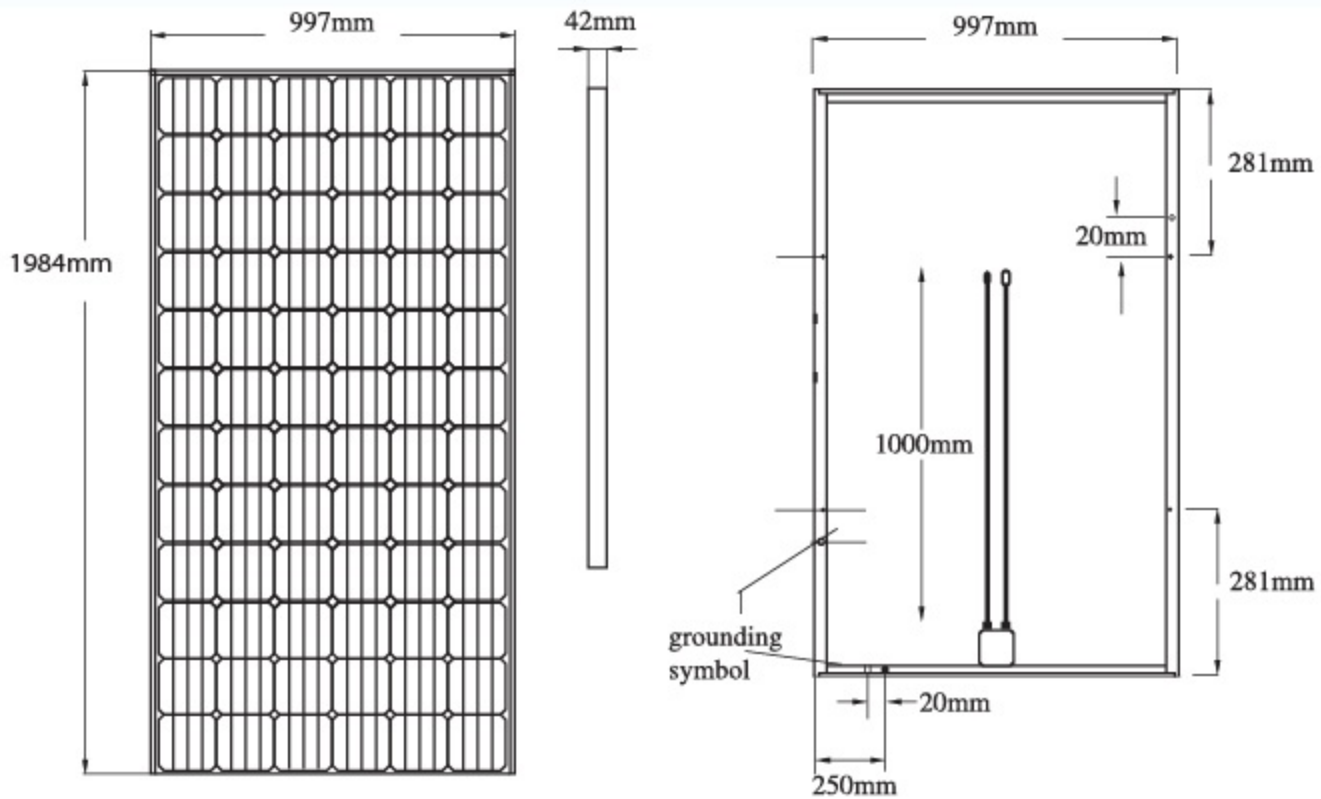
| Model   | MYS-72P/B3/CF-305   | MYS-72P/B3/CF-300 | MYS-72P/B3/CF-295 |
|---|---|-------------------|-------------------|
| Nominal power @ STC1 (P <sub>MAX</sub> )          | 305   | 300               | 295               |
| Voltage @ maximum power point (V <sub>mpp</sub> ) | 38.23   | 37.87             | 37.39             |
| Current @ maximum power point (I <sub>mpp</sub> ) | 7.98  | 7.93              | 7.89              |
| Open circuit voltage (V <sub>oc</sub> )           | 45.50   | 45.21             | 44.85             |
| Short circuit current (I <sub>sc</sub> )          | 8.503   | 8.481             | 8.392             |
| Temperature Coefficient                           | -0.39%/K - P <sub>max</sub><br>-0.320%/K - V <sub>oc</sub><br>+0.050%/K - I <sub>sc</sub> |                   |                   |

### General Electrical Parameters

|  |                |
|--|----------------|
| Maximum system voltage                           | 1,000V DC      |
| Maximum module reverse current (I <sub>R</sub> ) | 15A            |
| Operating Temperature range                      | -40°C to +85°C |
| NOCT   | 46 +/- 2°C     |



## DIMENSIONS



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IV parameters are rated at Standard Test Conditions (irradiance of 1000W/m<sup>2</sup>, AM 1.5G, cell temperature 25°C). All measurements are guaranteed at the laminate leads. NOCT is measured at 800W/m<sup>2</sup>, 20 deg. Ambient, and 1m/s windspeed. Specifications are subject to change without notice.

## Multi-Crystalline Photovoltaic Module

