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# **EnergyPal**

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

**Malaysian Solar Resources Sdn Bhd**

**MYS-72M/B3/CF-305-315**

**MYS-72M/B3/CF-305**

Also available on the web at

[EnergyPal.com/malaysian-solar-resources-sdn-bhd-solar-panels/mys-72m-b3-cf-](http://EnergyPal.com/malaysian-solar-resources-sdn-bhd-solar-panels/mys-72m-b3-cf-305)

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



**MYS-72M/B3/CF-315**  
**MYS-72M/B3/CF-310**  
**MYS-72M/B3/CF-305**

### High Quality of PV Module

The MYS-72M/B3/CF-315, MYS-72M/B3/CF-310 and MYS-72M/B3/CF-305 are distinguished by mono-crystalline solar cells with high efficiency up to 15.93% 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
- ▶ Outstanding weak light performance
- ▶ 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 Rheland 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 mono-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	= SHEMA10060074501TXC
Safety class	II	
IP protection level	65	
Warranty	10 years product warranty 10 years 90% nominal performance 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-72M/B3/CF-315	MYS-72M/B3/CF-310	MYS-72M/B3/CF-305
Nominal power @ STC1 (P <sub>MAX</sub> )	315	310	305
Voltage @ maximum power point (V <sub>mpp</sub> )	37.80	37.66	37.15
Current @ maximum power point (I <sub>mpp</sub> )	8.34	8.24	8.21
Open circuit voltage (V <sub>oc</sub> )	45.00	44.85	44.35
Short circuit current (I <sub>sc</sub> )	8.85	8.80	8.75
Temperature Coefficient		-0.45%/K - P <sub>max</sub> -0.41%/K - V <sub>oc</sub> +0.05%/K - I <sub>sc</sub>	

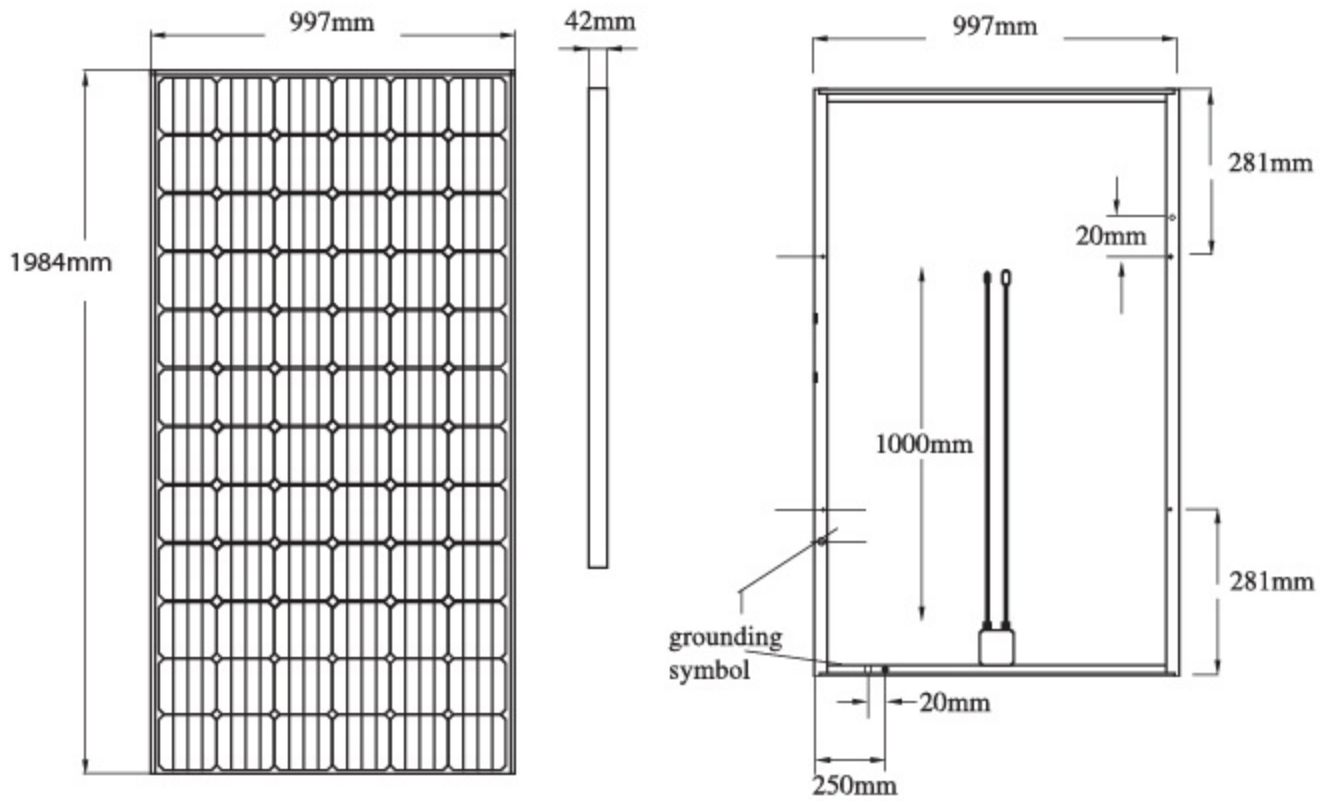
### General Electrical Parameters

Maximum system voltage	1,000V DC
Maximum module reverse current (I <sub>R</sub> )	12A
Operating Temperature range	-40°C to +85°C
NOCT	46 +/- 2°C





## DIMENSIONS



### International Marketing for Sales

Tel : +1-415-992-3291

Fax : +1-415-707-2003

[sales@malaysiansolar.com](mailto:sales@malaysiansolar.com)

### MSR Factory

**Malaysian Solar Resources Sdn. Bhd.**

Lot 74369, Lebuhraya Tun Razak,

26300 Kuantan,

Pahang Darul Makmur,

Malaysia.

Tel : +6 (09) 5668131

Fax : +6 (09) 5491032

[www.malaysiansolar.com](http://www.malaysiansolar.com)

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.

## Mono-Crystalline Photovoltaic Module

