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Solar Panel Guide Specification Data Sheet

Malaysian Solar Resources Sdn Bhd

MYS-48P/B3/CF-185-195

MYS-48P/B3/CF-195

Also available on the web at

EnergyPal.com/malaysian-solar-resources-sdn-bhd-solar-panels/mys-48p-b3-cf-195



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

MYS-48P/B3/CF-195

MYS-48P/B3/CF-190

MYS-48P/B3/CF-185

High Quality of Pv Module

The MYS-48P/B3/CF-195, MYS-48P/B3/CF-190 and MYS-48P/B3/CF-185 are distinguished by multi-crystalline solar cells with high efficiency up to 14.51% 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	1348mm x 997mm x 42mm	mm
Weight	Mass	15.4 +/- 1 / 18.6 +/- 1	Kg
Tested static back load (1 h)	Pressure	2'400	N/m ²
Tested static front load (1 h)	Pressure	2'400	N/m ²

Components

Glass	Tempered 3.2mm / 4mm solar glass
Photovoltaic cells	48 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 ²)	MC4 (Tyco Solarlok) / 2 x 1000mm / 4mm ²

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/m², module temperature 25°C, spectrum at air-mass AM 1.5

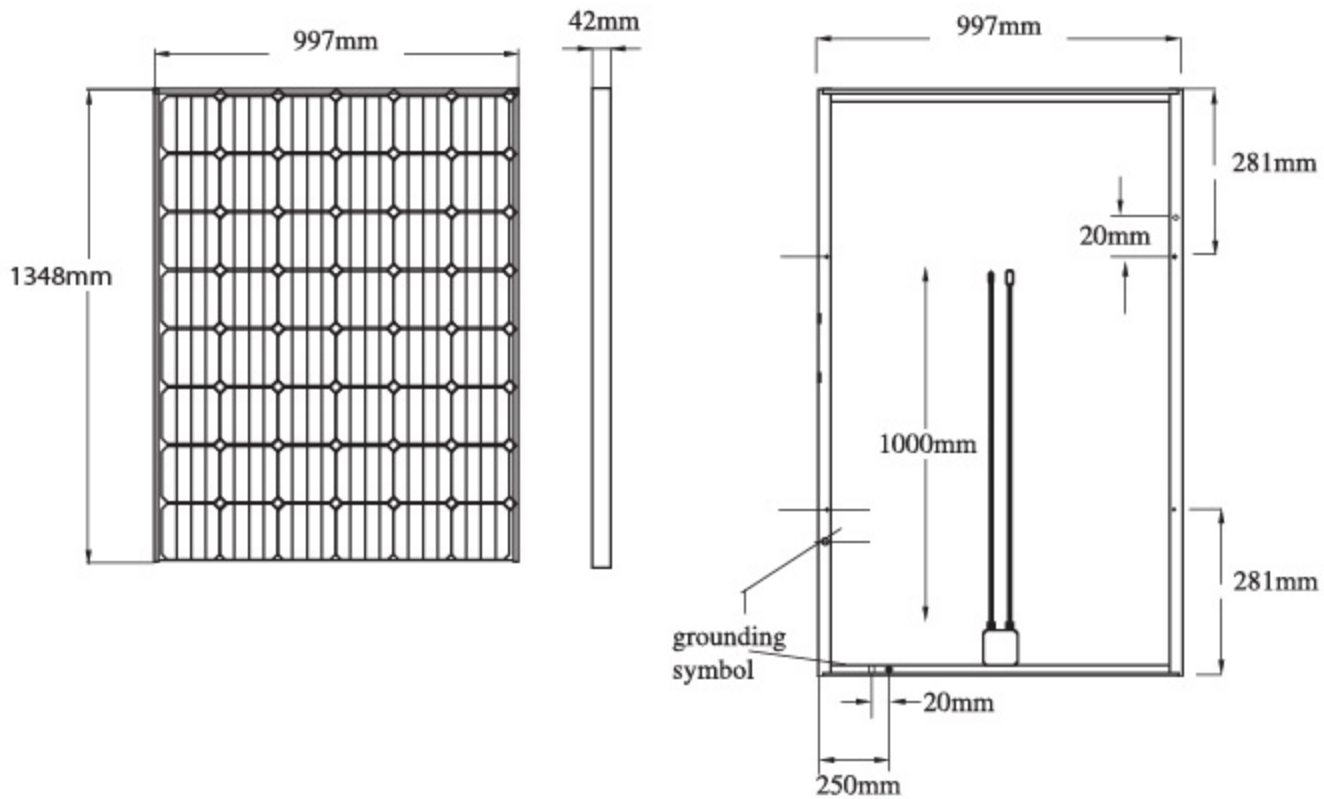
Model	MYS-48P/B3/CF-195	MYS-48P/B3/CF-190	MYS-48P/B3/CF-185
Nominal power @ STC1 (P _{MAX})	195	190	185
Voltage @ maximum power point (V _{mpp})	24.77	24.62	24.48
Current @ maximum power point (I _{mpp})	7.875	7.718	7.558
Open circuit voltage (V _{oc})	29.81	29.66	29.62
Short circuit current (I _{sc})	8.345	8.288	8.222
Temperature Coefficient	-0.39%/K - P _{max} -0.320%/K - V _{oc} +0.050%/K - I _{sc}		

General Electrical Parameters

Maximum system voltage	1,000V DC
Maximum module reverse current (I _R)	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/m², AM 1.5G, cell temperature 25°C). All measurements are guaranteed at the laminate leads. NOCT is measured at 800W/m², 20 deg. Ambient, and 1m/s windspeed. Specifications are subject to change without notice.

Multi-Crystalline Photovoltaic Module

