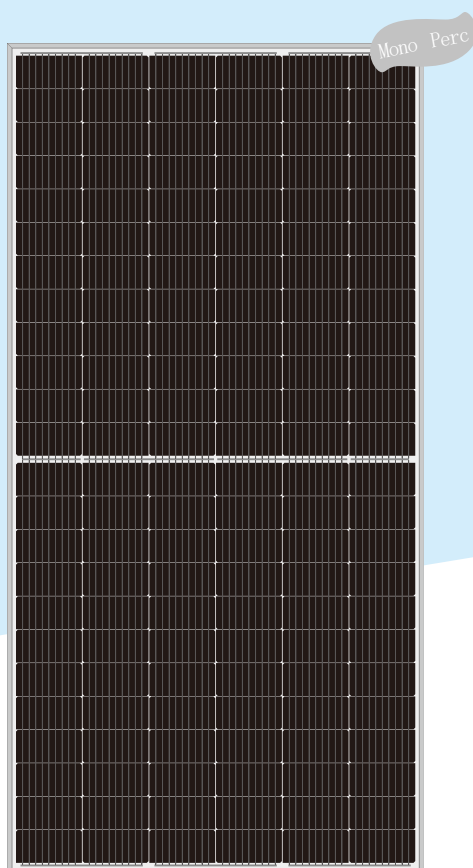


MS158.75mm 144 Cells

400~420W

Half-Cell High Efficiency PV Module



Comprehensive Products and System Certificates

IEC 61215 / IEC 61730 / CE

ISO 9001: 2015 / Quality management system



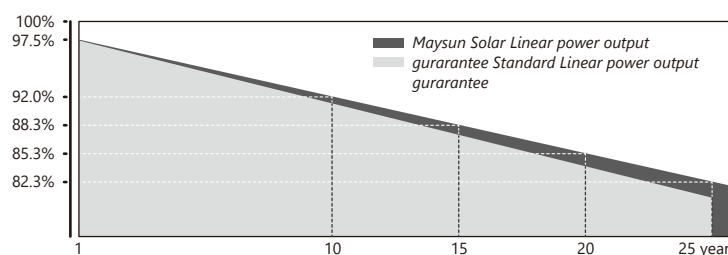
Quality Guarantee

12-year

Material & technology warranty

25-year

Linear power output warranty



**Max Module
Efficiency**

20.63%



Half-cell & High eff.

9BB Half-cell technology,
Higher output power



Less Shading Effect

Unique circuit design,
Minimize shading effect



Lower Temperature

Lower temperature coe-
efficient, Lower hot spot
temperature



Weather Resistance

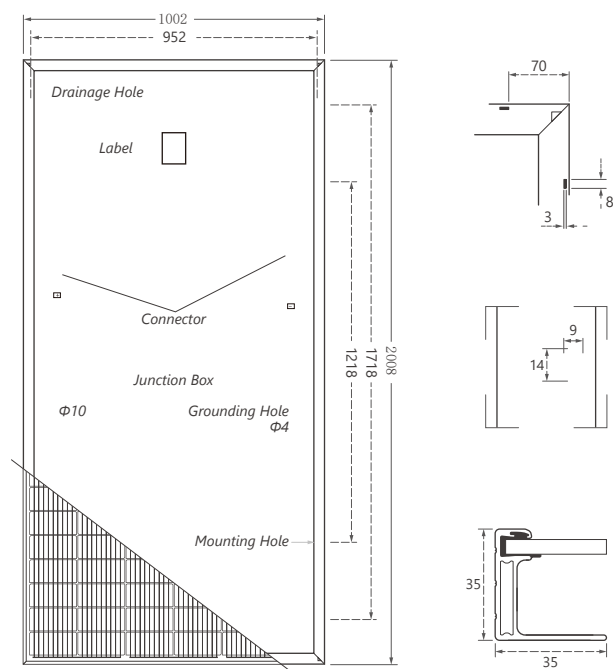
Pass Anti PID test, 100%
double EL test, Minimizes
micro-cracks



Maysun Solar FZCO Reserves the right of final interpretation.
Specifications and designs included in this datasheet are subject to change without notice.

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Design



Mechanical Specification

Cells Type	Mono 158.75×79.375mm
Weight	22.4kg
Dimension (L×W×T)	2008×1002×35mm
Cable	4.0mm ² , Portrait: 300mm(+)/400mm(-) (Including connector) Landscape: 1200mm(+)/1200mm(-)
No. of Cells	144 (6×24)
Packing	31pcs/pallet, 310pcs/20GP, 726pcs/40HQ
Glass	3.2mm High Transmission, Antireflection Coating
Junction box	IP68, 3 Bypass Diodes
Connector	MC4 Compatible

Operating Parameters

Maximum system voltage	1000V/1500V DC
Operating Temperature	-40 ~ +85°C
Maximum series fuse rating	20A
Snow load, frontside	5400Pa
Wind load, backside	2400Pa
Nominal operating cell temperature	45°C±2°C
Application level	Class A

Electrical Characteristics(STC)

Module Type	MS400MB-72H	MS405MB-72H	MS410MB-72H	MS420MB-72H
Maximum Power (P _{max})	400W	405W	410W	420W
Open-circuit Voltage (V _{oc})	49.0V	49.2V	49.4V	49.8V
Maximum Power Voltage (V _{mp})	40.6V	40.8V	41.0V	41.4V
Short-circuit Current (I _{sc})	10.32A	10.35A	10.40A	10.46A
Maximum Power Current (I _{mp})	9.86A	9.93A	10.00A	10.15A
Module Efficiency (%)	19.88%	20.13%	20.38%	20.87%

Power Tolerance	0~+5W
Temperature Coefficient of I _{sc}	0.05%/°C
Temperature Coefficient of V _{oc}	-0.29%/°C
Temperature Coefficient of P _{max}	-0.37%/°C
Standard Test Environment	Irradiance 1000W/m ² , Cell temperature 25°C, Spectrum AM1.5

Electrical Characteristics(NOCT)

Module Type	MS400MB-72H	MS405MB-72H	MS410MB-72H	MS420MB-72H
Maximum Power (P _{max})	302W	305W	309W	317W
Open-circuit Voltage (V _{oc})	47.3V	47.5V	47.7V	48.1V
Maximum Power Voltage (V _{mp})	39.6V	39.8V	40.1V	40.5V
Short-circuit Current (I _{sc})	8.19A	8.23A	8.27A	8.35A
Maximum Power Current (I _{mp})	7.63A	7.67A	7.71A	7.83A
Standard Test Environment	Irradiance 800W/m ² , Cell temperature 20°C, Spectrum AM1.5, Wind speed 1m/s			