



Macsun Solar Energy Technology Co., Limited

No. 1, Huaxing road, Shanghenglang, Dalang, LongHua, Shenzhen, China

T: 0086 755 8981 6120

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60x6"/MSP240S~MSP260P

POLY CRYSTALLINE MODULE

Characteristics & Performance

- > Use of only certified materials at highest quality standards.
- > The process of cell and module production is fully automated with 100% quality control and product traceability.
- > Heavy load mechanical resistance: TÜV certified (5400Pa tested against snow and 2400Pa test against wind)
- > Excellent performances even during low solar radiation
- > Guaranteed positive tolerance 0 to +3% of power for each module



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Certifications for Incentives

Quality, Environment, Health & Safety

- > ISO9001:2008, ISO14001:2004, OHSAS18001:2007
- > Full Member PV Cycle Association AISBL

Product Certifications

- > Quality and Robustness: IEC61215:2005
- > Safety: IEC61730 -1/-2, MCS, CEC, UL
- > Resistance to salt corrosion (salt fog): IEC61701:2000
- > Resistance to ammonia fumes: Ammonia Resistance Test

25 Year Linear Power Guarantee

Commercial

- > 12 years on material and manufacturing defects

Performance

- > Power not less than 90% of power peak during the first 12 years
- > Power not less than 80% of power peak during the subsequent 13 years.



Electrical Characteristics at STC

TYPE		MSP240S	MSP245S	MSP250P	MSP255P	MSP260P
Maximum Power	P _{max} (W)	240W	245W	250W	255W	260W
Tolerance Value for Power	%	0~+3%	0~+3%	0~+3%	0~+3%	0~+3%
Maximum Power Voltage	V _{mpp} (V)	30.20	30.30	30.30	30.50	30.50
Maximum Power Current	I _{mpp} (A)	7.96	8.09	8.26	8.38	8.53
Open Circuit Voltage	V _{oc} (V)	37.20	37.30	37.30	37.40	37.50
Short Circuit Current	I _{sc} (A)	8.33	8.34	8.90	9.05	9.24
Module Efficiency	η	>14.78%	>15.07%	>15.37%	>15.67%	>15.98%

Performance at STC: Irradiance of 1000W/m², Module temperature 77±3.6°F (25±2°C)

AM 1.5 Power measurement tolerance: ±3%



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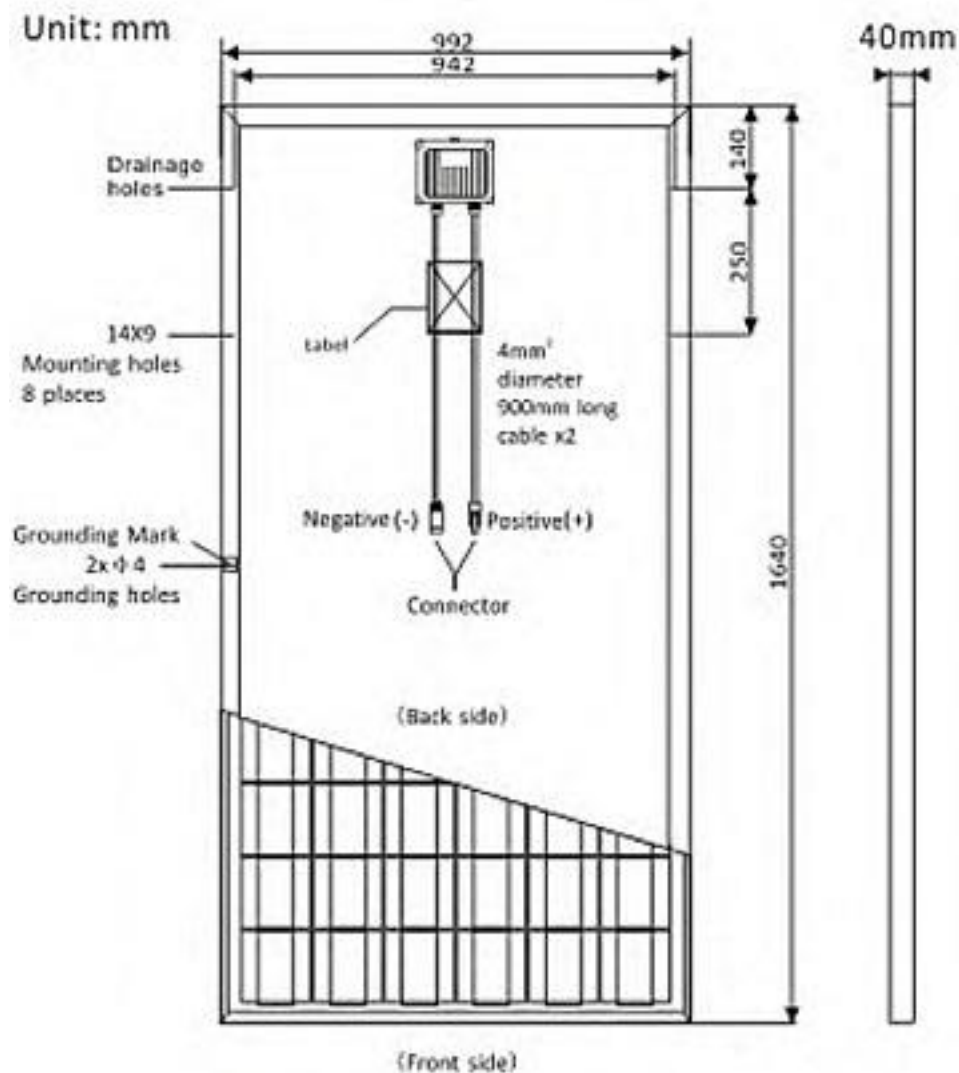
Electrical Characteristics at NOCT

TYPE		MSP240S	MSP245S	MSP250P	MSP255P	MSP260P
Maximum Power	Pmax(W)	173.04W	179.10W	183.20W	187.40W	189.28W
Maximum Power Voltage	Vmpp(V)	26.56	27.30	27.50	27.60	27.80
Maximum Power Current	Imp(A)	6.52	6.56	6.66	6.79	6.81
Open Circuit Voltage	Voc(V)	33.65	34.20	34.30	34.40	34.50
Short Circuit Current	Isc(A)	6.8	7.02	7.11	7.23	7.32

Performance at NOCT: Irradiance 800W/m², Ambient temperature 20°C, Wind speed 1m/S

Power measurement tolerance: ±3%

Physical Data





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Temperature Coefficients(Tc)

Temperature Coefficient of VOC(β)	-0.33%/°C
Temperature Coefficient of ISC(α)	+0.033%/°C
Temperature Coefficient of Pmax	-0.39%/°C
Nominal Operating Cell Temperature(NOCT)	45±2°C

Permissible Operating Conditions

Maximum system voltage	1000VDC
Operating temperature	-40~+85°C
Maximum Surface Load Capacity	Test up to 5400Pa according to IEC61215 (Advanced test)
Resistance Against Hail	Maximum diameter of 1in.(25mm) impact speed of 51.5mph(23m/s)

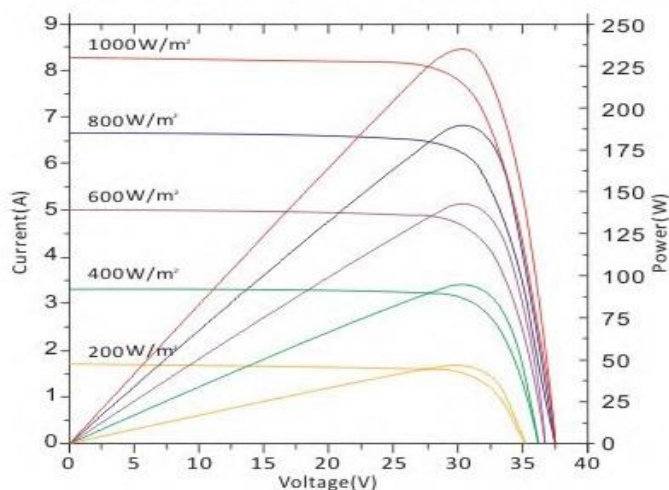
Mechanical specifications

Cells	Polycrystalline cell with 3-busbars,6"(6x10)
Junction box	IP67,combined with 3 by-pass diodes
Front Glass Thickness	3.2mm
Connecting Cable/Connector	MC4 compatible connector/4mm ² diameter, 900mm length
Frame Dimension	1640x992x40mm
Weight	19.5KG

Packing Features

Frame Height	40mm
Qty/Pallet (PCS)	26
Qty/40HC container (PCS)	728

MSP235S
Electrical characteristics at different irradiances (25°C)



I-V characteristics at different cell temperatures (AM1.5, 1000W/m²)

