For Global Market

MaysunSolar

Monocrystalline PV Module

MS(320-340)M-120 Series

9BB

- More uniform current collection ability, reduces the current and heat loss of the battery in the module; beautiful appearance, more suitable for roof installation.
- Using half-piece PERC structure technology (low resistance), the output of mono crystalline 60pcs series is up to 335W (module conversion efficiency is up to 19.85%).
- System voltage 1000V/1500V standard
- It can ensure that the components produced on a large scale can pass the PID (potential induced attenuation) test.
- Excellent performance in low light environment achieved by using excellent surface velveting technology of glass and cells.
- The whole module is certified by 2400Pa wind load and 5400Pa snow load.
- Certified by high salt spray and high ammonia corrosion test

320	325	330	335	340

EN

ELECTRICAL SPECIFICATIONS

STC rated output (P_{mpp})*	320 Wp	325 Wp	330 Wp	335 Wp	340 Wp
PV Module size	1684*1002*35 mm				
Standard sorted output	0/+5 Wp				
Warranted power output STC ($P_{nominal}$)	320 Wp	325 Wp	330 Wp	335 Wp	340 Wp
Rated voltage (V_{mpp}) at STC	33.4 V	33.6 V	33.8 V	34.0 V	34.3 V
Rated current (I_{mpp}) at STC	9.59 A	9.68 A	9.77 A	9.84 A	9.91 A
Open circuit voltage (V_{oc}) at STC	40.9 V	41.1 V	41.3 V	41.5 V	41.7 V
Short circuit current (I_{sc}) at STC	10.15 A	10.20 A	10.31 A	10.36 A	10.42 A
Module efficiency	18.96%	19.26%	19.56%	19.85%	20.15%
Rated output (P_{mpp}) at NOCT	239 Wp	242 Wp	246 Wp	250 Wp	255 Wp
Rated voltage (V_{mpp}) at NOCT	31.4 V	31.6 V	31.8 V	32.0 V	32.2 V
Rated current (I_{mpp}) at NOCT	7.62 A	7.66 A	7.74 A	7.82 A	7.92 A
Open circuit voltage (V_{oc}) at NOCT	37.8 V	38.0 V	38.2 V	38.4 V	38.6 V
Short circuit current (I_{sc}) at NOCT	8.44 A	8.54 A	8.65 A	8.74 A	8.80 A

Temperature coefficient (P_{mpp})	- 0.380%/K
Temperature coefficient (I_{sc})	+0.042%/K
Temperature coefficient (I_{mpp})	- 0.008%/K
Temperature coefficient (V_{mpp})	- 0.373%/K
Temperature coefficient (V_{oc})	- 0.284%/K
Normal operating cell temperature (NOCT)	46±2°C

Maximum system voltage (IEC)	1000V_{DC} / 1500V_{DC}
Number of diodes	3
Maximum series fuse rating	15 A
Operating Temperature	-40℃ to +85℃

* Measurement tolerance +/- 3%

IEC 61701 Salt Spray test Severity (3) | IEC 60068-2-68 Sand test | IEC 62804 1500V PID test

MAYSUN SOLAR

RELATED PARAMETERS

Cell type	Monocrystalline 158.75*158.75
Number of cells / cell arrangement	120 / 6*20
Cells dimension	6"
Packing unit	30 modules
Weight of packing unit (for container)	570kg / 1257 lbs

MECHANICAL SPECIFICATIONS

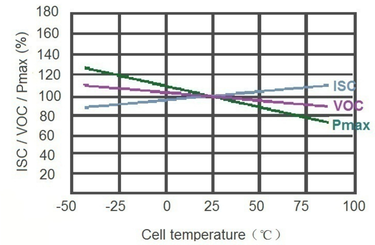
Outer dimensions (L x W x H)	1684*1002*35mm 66.35 * 39.48 * 1.38 in
Frame technology	Aluminum,silver anodized
Module composition	Glass/EVA/Backsheet(white)
Weight (module only)	19kg /41.88 lbs
Front glass thickness	3.2mm / 0.13 in
Junction box IP rating	IP 65/67
①Cable length(IEC)	450/500mm / 17.73/19.70 in
Cable diameter (IEC)	12 AWG/4mm²
②Maximum load capacity	5400 Pa
Fire performance (IEC)	Class C
Connector type (IEC)	MC4 compatible

Refer to Maysun Solar crystalline installation manual.

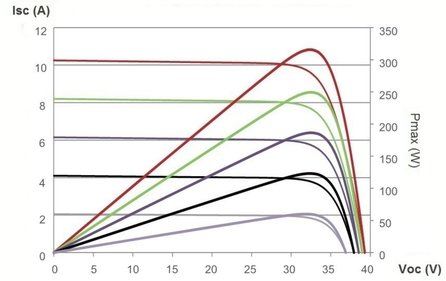
QUALIFICATION AND LINEAR WARRANTIES

Product standard	IEC61215, 61730
Extended product warranty	12 years
Output decline 3%/year performance P_{mpp} (STC)	1st year
Output decline 0.7%/year performance P_{mpp} (STC)	2nd~ 25th years

ISC / VOC / Pmax Diagram of curves

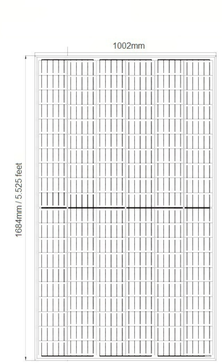


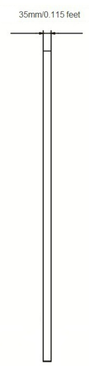
I-V Curves of PV module MS 320M-120 at various solar irradiance

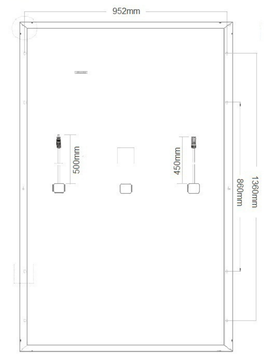


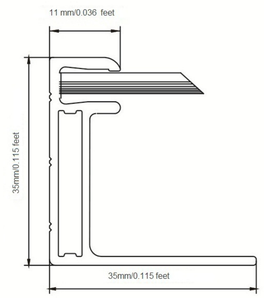
MODULE DIMENSION DETAILS

Front view	Side view	Rear view	Frame cross section









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Website: www.maysunsolar.com

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