

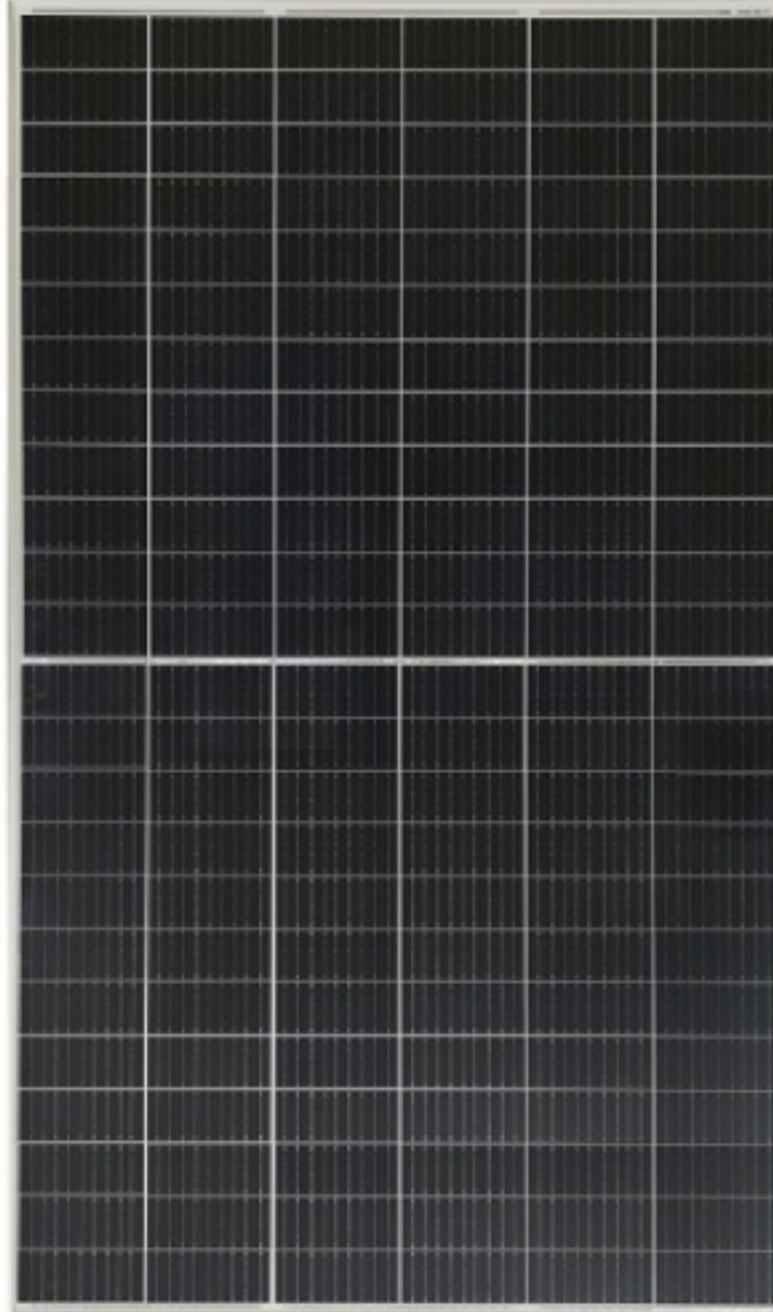
For Global Market

MaysunSolar

Monocrystalline PV Module

MS(380-410)M-144 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 72pcs series is up to 410W (module conversion efficiency is up to 20.37%).
- ▶ 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

380 385 390 395 400 405 410

EN

ELECTRICAL SPECIFICATIONS

STC rated output (P _{mpp})*	380 Wp	385 Wp	390 Wp	395 Wp	400 Wp	405 Wp	410 Wp
PV Module size	2008*1002*35mm						
Standard sorted output	0/+5 Wp						
Warranted power output STC (P _{Nominat})	380 Wp	385 Wp	390 Wp	395 Wp	400 Wp	405 Wp	410 Wp
Rated voltage (V _{mpp}) at STC	39.8 V	40.0 V	40.2 V	40.4 V	40.6 V	40.8 V	41.0 V
Rated current (I _{mpp}) at STC	9.55 A	9.63 A	9.68 A	9.78 A	9.86 A	9.93 A	10.00 A
Open circuit voltage (V _{oc}) at STC	48.2 V	48.4 V	48.6 V	48.8 V	49.0 V	49.2 V	49.4 V
Short circuit current (I _{sc}) at STC	10.15 A	10.21 A	10.24 A	10.27 A	10.32 A	10.35 A	10.40 A
Module efficiency	18.86%	19.11%	19.37%	19.62%	19.87%	20.12%	20.37%
Rated output (P _{mpp}) at NOCT	287 Wp	291 Wp	295 Wp	298 Wp	302 Wp	305 Wp	309 Wp
Rated voltage (V _{mpp}) at NOCT	38.6 V	38.9 V	39.1 V	39.3 V	39.6 V	39.8 V	40.1 V
Rated current (I _{mpp}) at NOCT	7.44 A	7.49 A	7.53 A	7.57 A	7.63 A	7.67 A	7.71 A
Open circuit voltage (V _{oc}) at NOCT	46.5 V	46.7 V	46.9 V	47.1 V	47.3 V	47.5 V	47.7 V
Short circuit current (I _{sc}) at NOCT	8.05 A	8.09 A	8.13 A	8.16 A	8.19 A	8.23 A	8.27 A

Temperature coefficient (P _{mpp})	-0.370%/K	Maximum system voltage (IEC)	1000V _{DC} / 1500V _{DC}
Temperature coefficient (I _{sc})	+0.050%/K	Number of diodes	3
Temperature coefficient (I _{mpp})	-0.008%/K	Maximum series fuse rating	20 A
Temperature coefficient (V _{mpp})	-0.370%/K	Operating Temperature	-40°C to +85°C
Temperature coefficient (V _{oc})	-0.290%/K		
Normal operating cell temperature (NOCT)	45±2°C		

* Measurement tolerance +/- 3%



MAYSUN SOLAR

RELATED PARAMETERS

Cell type	Monocrystalline 158.75*79.375mm
Number of cells / cell arrangement	144/6*24
Cells dimension	6.75"
Packing unit	30 modules
Weight of packing unit (for container)	690kg/1521 lbs

MECHANICAL SPECIFICATIONS

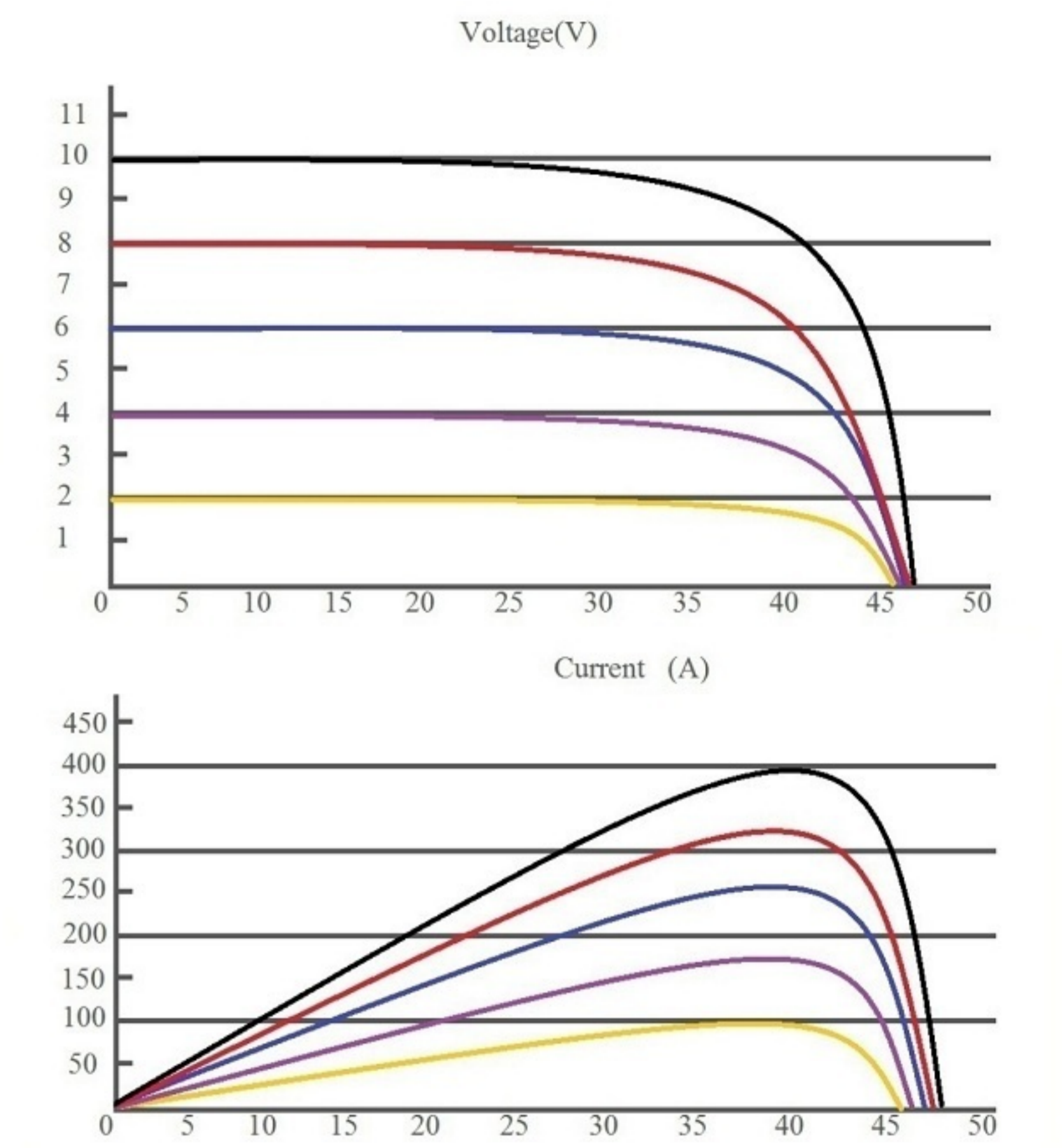
Outer dimensions (L x W x H)	2008*1002*35mm 79.13*39.45*1.57 in
Frame technology	Aluminum, silver anodized
Module composition	Glass/EVA/Backsheet(white)
Weight (module only)	23kg /50.71 lbs
Front glass thickness	3.2mm / 0.13 in
Junction box IP rating	IP 65/68
① Cable length(IEC)	300/400mm 11.82/15.76 in
Cable diameter (IEC)	12 AWG/4mm ²
② Maximum load capacity	5400 Pa
Fire performance (IEC)	Class C
Connector type (IEC)	MC4 compatible

Refer to Maysun Solar crystalline installation manual.

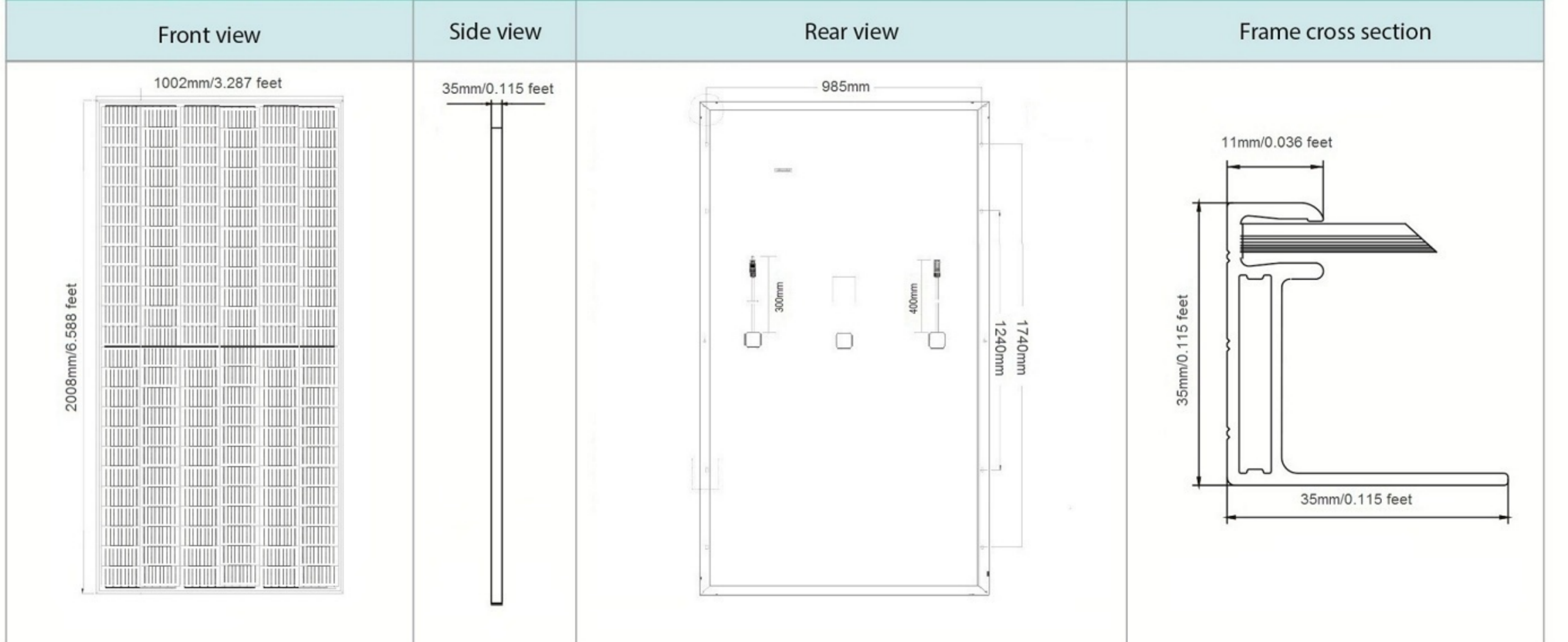
QUALIFICATION AND LINEAR WARRANTIES

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

I-V Curves of pv Module MS400MB-144 at various solar irradiance



MODULE DIMENSION DETAILS



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

Website: www.maysunsolar.com

Maysun Solar 08-2020