

For Global Market



Monocrystalline PV Module

GH(380-410)M-144 Series



- ▶ 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 1600Pa wind load and 3600Pa snow load.
- ▶ Certified by high salt spray and high ammonia corrosion test

380	385	390	395	400	405	410
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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%



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

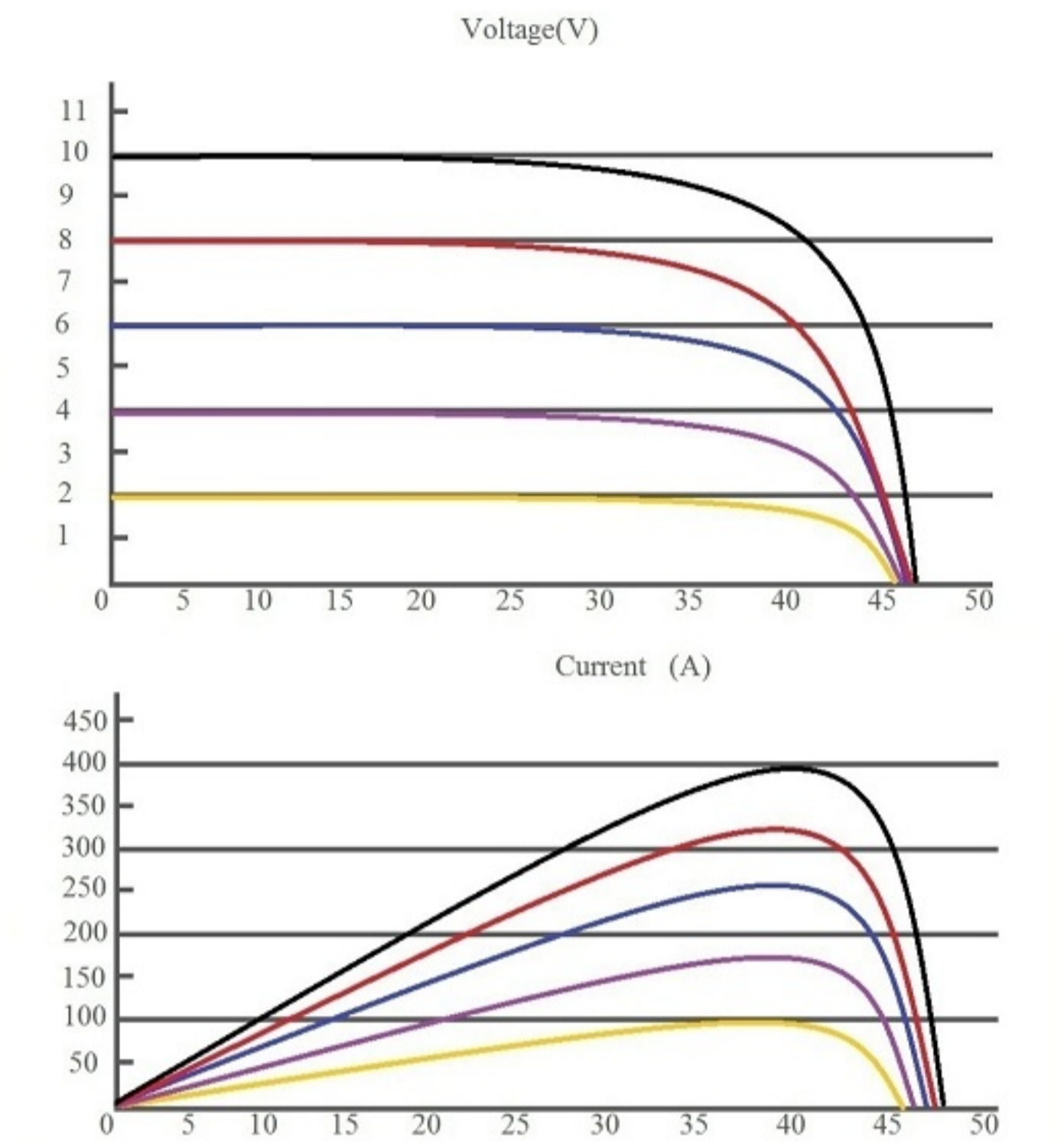
Outer dimensions (L x W x H)	2008*1002*35mm 79.13*39.45*1.57 in
Frame technology	Aluminum, silver anodized
Module composition	Glass/EVA/Backsheet(white)
Weight (module only)	23kg /50.71 lbs
Front glass thickness	3.2mm / 0.13 in
Junction box IP rating	IP 65/68
① Cable length(IEC)	300/400mm 11.82/15.76 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.

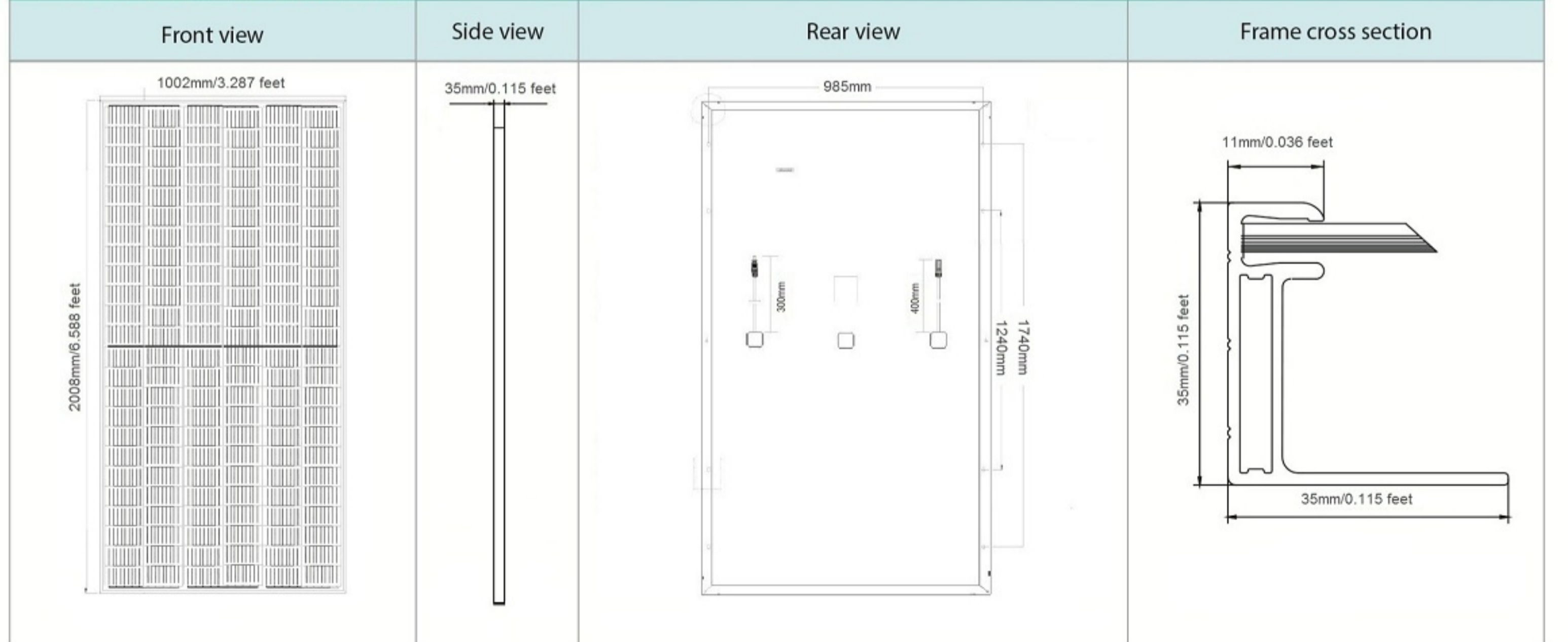
QUALIFICATION AND LINEAR WARRANTIES

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



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

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