

MaysunSolar

Monocrystalline PV Module MS(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
- 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
- scale can pass the PID (potential induced attenuation)
- 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

380	385	390	395	400	405	410	CCSC			EN	
ELECTRICAL SPECIFICATIONS											
STC rated output (Pmpp)*			3	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 (Pnominal)				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 (Impp) at STC				9.55A	9.63 A	9.68 A	9.78 A	9.86 A	9.93 A	10.00 A	
Open circuit voltage (V₀c) 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 (I₅c) at STC			1	0.15 A	10.21 A	10.24 A	10.27 A	10.32 A	10.35 A	10.40 A	
Module efficiency			1	18.86%	19.11%	19.37%	19.62%	19.87%	20.12%	20.37%	
Rated output (Pmpp) at NOCT			2	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 (Impp) at NOCT				7.44 A	7.49A	7.53 A	7.57 A	7.63 A	7.67 A	7.71 A	
Open circuit voltage (Voc) at NOCT				46.5 V	46.7 V	46.9 V	47.1 V	47.3V	47.5 V	47.7V	
Short circuit current (Isc) 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 (Pmpp)				- 0.370%/K			Maximum system voltage (IEC)			1000Vpc / 1500Vpc	
Temperature coefficient (Isc)				+0.050%/K			Number of diodes			3	
Temperature coefficient (Impp)				- 0.008%/K			Maximum series fuse rating			20 A	
Temperature coefficient (V _{mpp})					- 0.370%/K	Opera	Operating Temperature			-40°C to +85°C	
Temperature coefficient (Voc)					- 0.290%/K						
Normal operating cell temperature (NOCT)			CT)		45±2°C						

* Measurement tolerance +/- 3%











IEC 60068-2-68 | IEC 62804













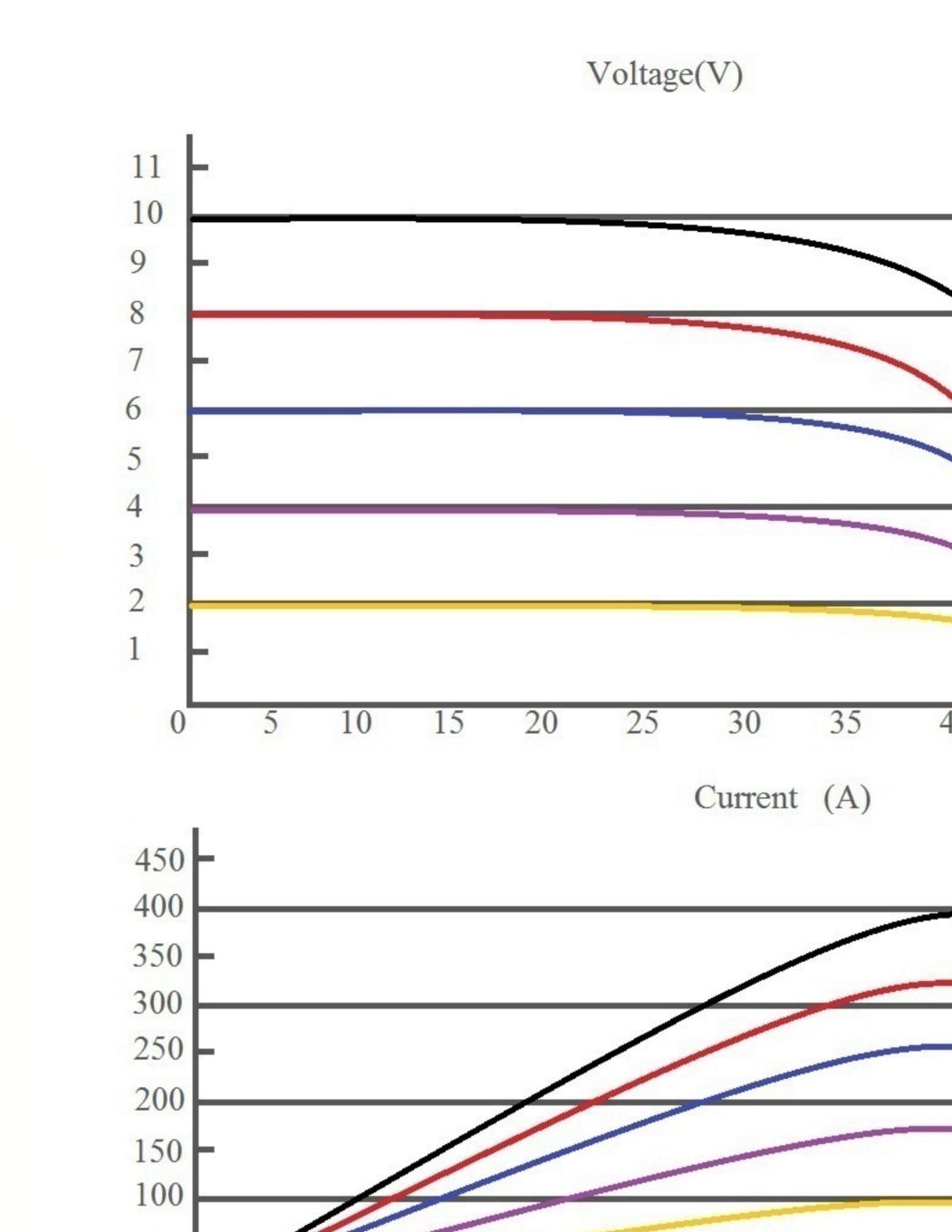
RELATED PARAMETERS						
Cell type	Monocrystalline 158.75*79.375mm					
Number of cells / cell arrangement	144/6*24					
Cells dimension	6.75"					
Packing unit	30 moduies					
Weight of packing unit (for container)	690kg/1521 lbs					

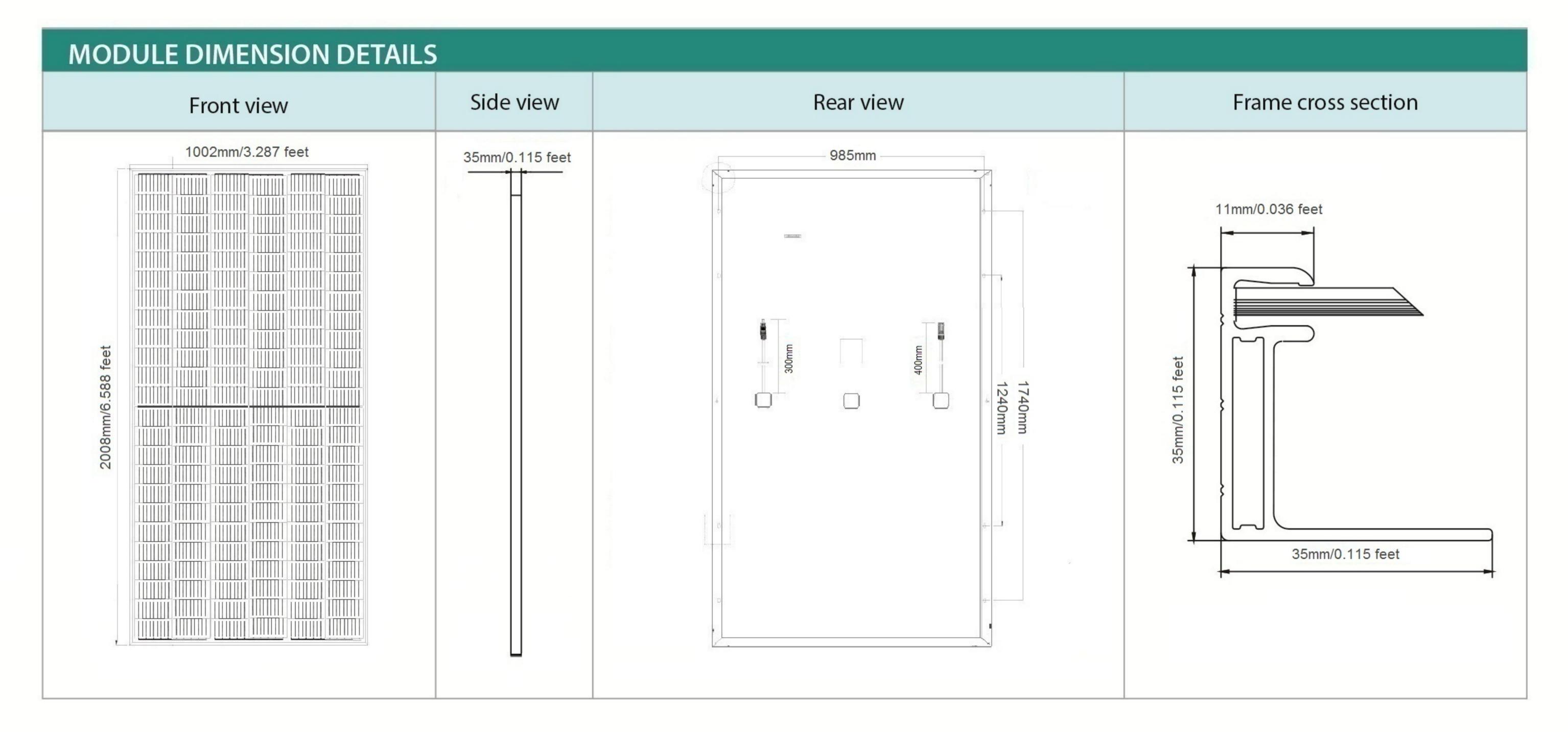
MECHANICAL SPECIFICATIONS						
Outer dimensions (L x W x H)	2008*1002*35mm 79.13*39.45*1.57 in					
Frame technology	Aluminum, silver anodized					
Module composition	Glass/EVA/Backsheet(white)					
Weight (module only)	23kg /50.71 lbs					
Front glass thickness	3.2mm / 0.13 in					
Junction box IP rating	IP 65/68					
¹ Cable length(IEC)	300/400mm 11.82/15.76 in					
Cable diameter (IEC)	12 AWG/4mm²					
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 IEC61215, 61730 Product standard Extended product warranty 12 years Output decline 3%/year performance Pmpp (STC) 1st year Output decline 0.7%/year performance Pmpp (STC) 2^{nd~} 25th years

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





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