

Mars Series

500W/505W/510W

SUN 66M-H8

MBB HALF-CELL MONO PV MODULE
182MM CELLS



COMPREHENSIVE CERTIFICATES

IEC61215 / IEC61730 / IEC61701 / IEC62716 / IEC62804
ISO 9001: 2015 Quality management systems;
ISO 14001: 2015 Environmental management systems;
OHSAS 18001: 2007 Occupational health and safety management systems;

Sunergy Advantages



Power attenuation rate surpass than industry standards

As the CTC randomization test, our attenuation rate is 1.81%, 0.31% and 0.34% in the 1st, 2nd and 3rd year, which is much less than the national standard value of 2% and 0.55%



Overflow tank can be waterproof

The excess silicone will flow into the overflow tank, can reduce 3% water vapor entering the panels.



Stronger frame

The C side of the frame contains curved hook reinforcement, enhanced the mechanical load strength by 10%



Current grading

Current classification effectively avoids 2% power loss caused by current mismatch during installation, achieving max output power



IP68 junction box

IP68 junction box offer perfect waterproof performance

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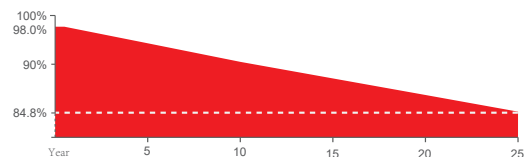
Founded in 2008, Sunergy is a manufacturer of high-performance photovoltaic products. With 12 manufacturing bases and more than 20 branches around the world, the company's business covers modules, photovoltaic power stations and EPC. Sunergy products are available in over 120 countries and regions and are used extensively in ground-mounted power plants, commercial & industrial rooftop PV systems and residential rooftop PV systems.

QUALIFICATIONS AND CERTIFICATES



LINEAR PERFORMANCE WARRANTY

- 12 Years Manufacturing Warranty
- 12 Years 92.0% Power Output
- 25 Years 84.8% Power Output

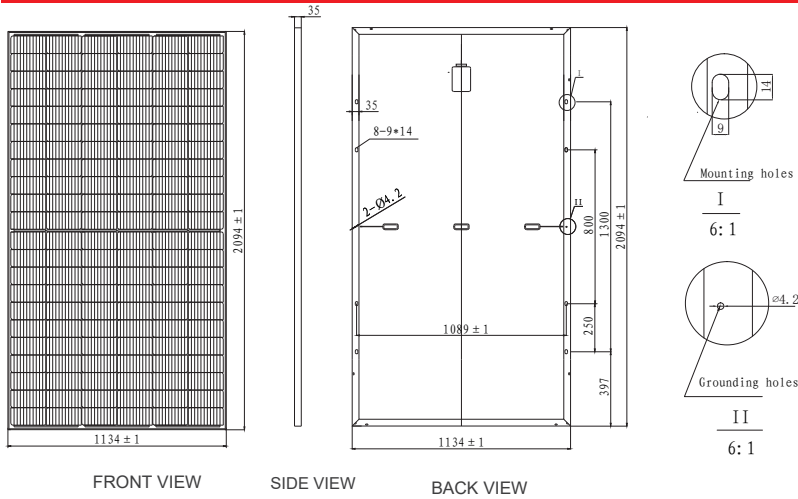


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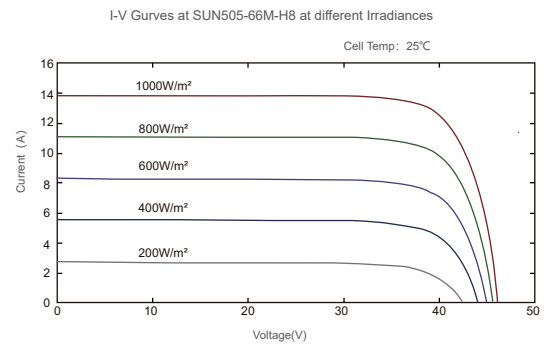


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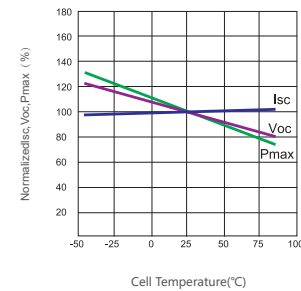
MECHANICAL DRAWINGS



I-V CURVES



Power voltage current curve at different temperature



MECHANICAL SPECIFICATION

Cell Type	Mono Crystalline 182x91mm
Number Of Cells	132 (6x32)
Dimensions(AxBxC)	2094x1134x35mm
Weights	26.0kg
Glass	3.2mm Tempered Low Iron Glass
Aluminium Frame	Anodised Aluminium
Junction Box	Split Junction Box (IP68 ,three diode)
Connector	Mc4 Compatible
Output Cables	4.0mm²,+300mm,-300mm Customized Length

PACKING CONFIGURATION

Container	40' HQ
Pieces Per Pallet	31
Pallets Per Container	22
Pieces Per Container	682

ELECTRICAL CHARACTERISTICS

Module Type	500W		505W		510W	
	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power At STC(Pmax)	500W	376.7W	505W	380.4W	510W	384.2W
Short Circuit Current(Isc)	13.76A	11.12A	13.82A	11.17A	13.89A	11.22A
Open Circuit Voltage(Voc)	45.9V	42.9V	46.1V	43.1V	46.4V	43.4V
Maximum Power Current(Imp)	12.92A	10.54A	12.98A	10.58A	13.05A	10.64A
Maximum Power Voltage(Vmpp)	38.7V	35.7V	38.9V	35.9V	39.1V	36.1V
Module Efficiency	21.06%		21.27%		21.48%	
Power Tolerance	0~+5W		0~+5W		0~+5W	
Maximum System Voltage	VDC 1500V					
Maximum Series Fuse	25A					
Increased Snowload Acc.to Iec 61215	5400Pa					
Operating Temperature	-40~+85°C					
Number Of Bypass Diodes	3					
Norminal Operating Cell Temperature(Noct)	45°C±2°C					
Temperature Coefficient Of Pmax	-0.35%/°C					
Temperature Coefficient Of Voc	-0.27%/°C					
Temperature Coefficient Of Isc	0.05%/°C					

STC: 1000W/m2 irradiance, 25°C cell temperature, AM1.5. NOCT: Irradiance at 800W/m², Ambient Temperature 20°C, wind speed 1m/s.



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