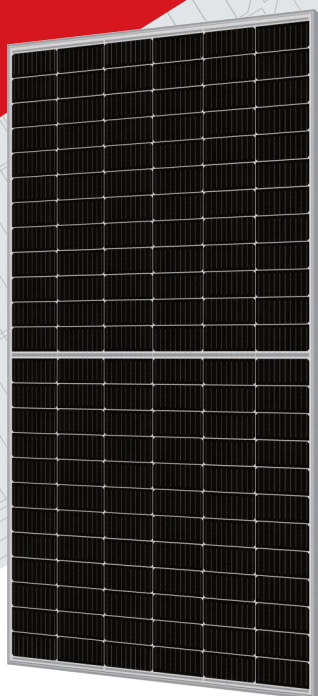


Mars Series

540W/545W/550W/555W/560W

SUN 72M-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

SUNERGY USA WORKS LLC

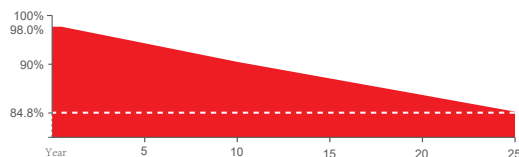
Founded in 2008, Sunergy is a manufacturer of high-performance photovoltaic products. With 12 manufacturing bases and more than 20 branches around the world, the company's business covers modules, photovoltaic power stations and EPC. Sunergy products are available in over 120 countries and regions and 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

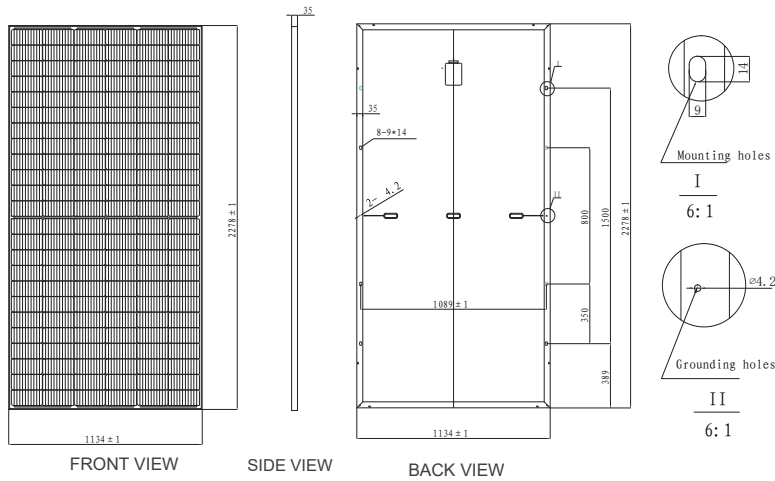


SUNERGY USA WORKS LLC
www.sunergyworks.com

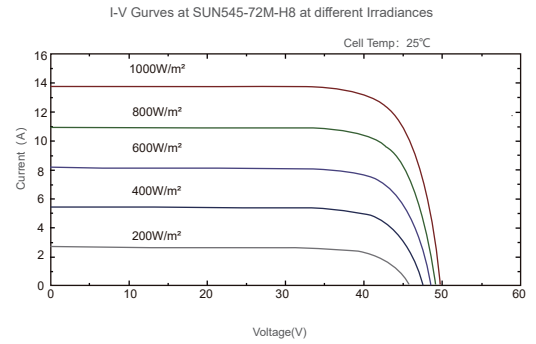


Mars Series SUN 72M-H8

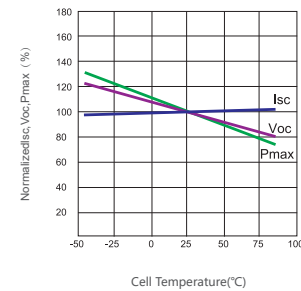
MECHANICAL DRAWINGS



I-V CURVES



Power voltage current curve at different temperature



MECHANICAL SPECIFICATION

Cell Type	Mono Crystalline 182x91mm
Number Of Cells	144 (6x24)
Dimensions(AxBxC)	2278x1134x35mm
Weights	29.0kg
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	20
Pieces Per Container	620

ELECTRICAL CHARACTERISTICS

Module Type	540W		545W		550W		555W		560W	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power At STC(Pmax)	540W	406.8W	545W	410.5W	550W	414.3W	555W	418.1W	560W	421.8W
Short Circuit Current(Isc)	13.70A	11.07A	13.76A	11.12A	13.82A	11.17A	13.88A	11.22A	13.94A	11.26A
Open Circuit Voltage(Voc)	49.8V	46.5V	50.0V	46.7V	50.2V	46.9V	50.5V	47.2V	50.7V	47.4V
Maximum Power Current(Imp)	12.86A	10.49A	12.92A	10.54A	12.98A	10.58A	13.03A	10.63A	13.09A	10.68A
Maximum Power Voltage(Vmpp)	42.0V	38.8V	42.2V	39.0V	42.4V	39.1V	42.6V	39.3V	42.8V	39.5V
Module Efficiency	20.90%		21.10%		21.29%		21.48%		21.68%	
Power Tolerance	0~+5W		0~+5W		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.

