

# Mars Series

540W/545W/550W

## 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;

### KEY SALIENT FEATURES



High output power



Better power generation under shadows



Strong anti-hot spot ability



Strong mechanical load capacity



Super strong frame



1500V system voltage

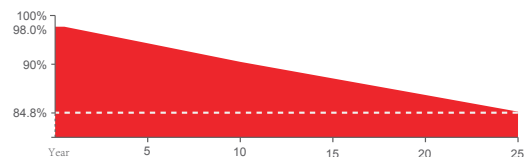
### SUNERGY USA WORKS LLC

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.

### LINEAR PERFORMANCE WARRANTY

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

### QUALIFICATIONS AND CERTIFICATES

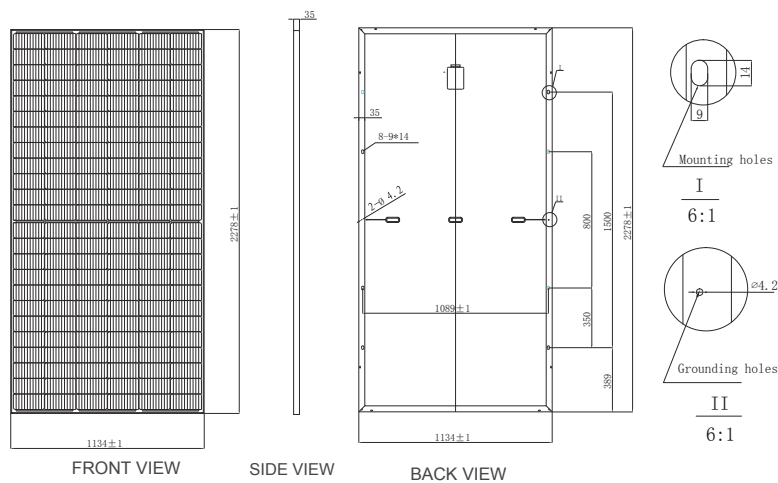


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[www.sunergyworks.com](http://www.sunergyworks.com)

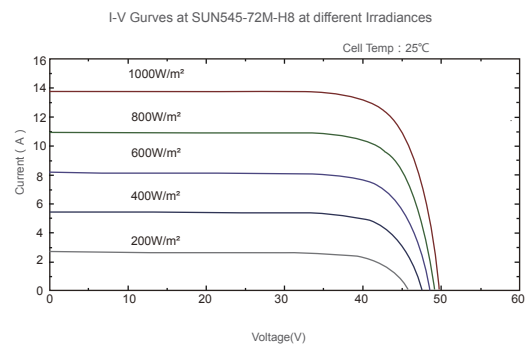


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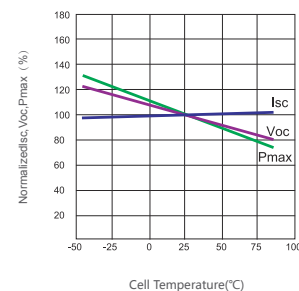
## MECHANICAL DRAWINGS



## I-V CURVES



Power voltage current curve at different temperature



## MECHANICAL SPECIFICATION

Cell Type	Mono Crystalline 182x91mm
Number Of Cells	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	
	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power At STC(Pmax)	540W	406.8W	545W	410.5W	550W	414.3W
Short Circuit Current(Isc)	13.70A	11.07A	13.76A	11.12A	13.82A	11.17A
Open Circuit Voltage(Voc)	49.8V	46.5V	50.0V	46.7V	50.2V	46.9V
Maximum Power Current(Imp)	12.86A	10.49A	12.92A	10.54A	12.98A	10.58A
Maximum Power Voltage(Vmpp)	42.0V	38.8V	42.2V	39.0V	42.4V	39.1V
Module Efficiency	20.90%		21.10%		21.29%	
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.

