

# Mars Series

530W/535W/540W/545W/550W/

## SUN 54M-H2

MBB HALF-CELL MONO PV MODULE  
210MM 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

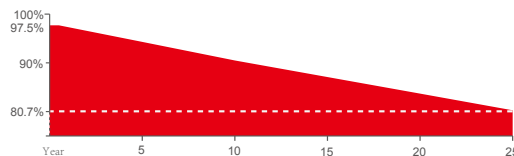
### SUNERGY USA WORKS LLC

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 90% Power Output
- 25 Years 80% Power Output

### QUALIFICATIONS AND CERTIFICATES

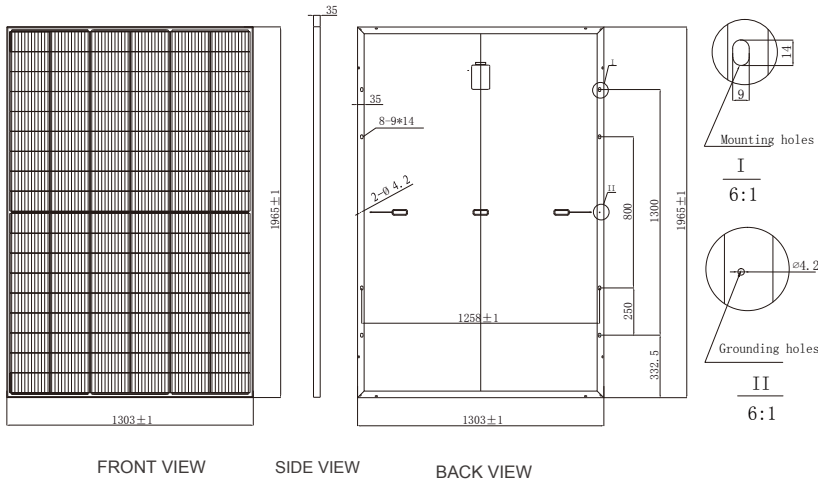


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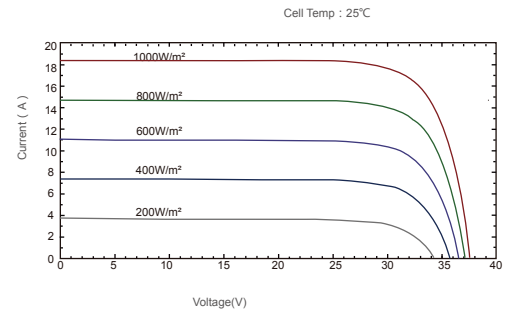
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## MECHANICAL DRAWINGS

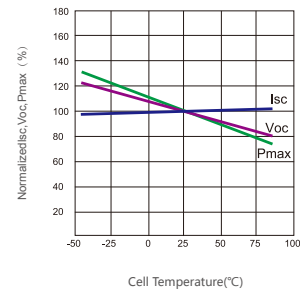


## I-V CURVES

I-V Curves at SUN540-54M-H2 at different Irradiances



Power voltage current curve at different temperature



## MECHANICAL SPECIFICATION

Cell Type	Mono Crystalline 210x105mm
Number Of Cells	108 (6x18)
Dimensions(AxBxC)	1965x1303x35mm
Weights	28.5kg
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	30
Pallets Per Container	16
Pieces Per Container	480

## ELECTRICAL CHARACTERISTICS

Module Type	530W		535W		540W		545W		550W	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power At STC(Pmax)	530W	401.7W	535W	405.5W	540W	409.3W	545W	413.1W	550W	416.9W
Short Circuit Current(Isc)	18.28A	14.77A	18.33A	14.81A	18.38A	14.85A	18.45A	14.91A	18.49A	14.94A
Open Circuit Voltage(Voc)	37.0V	34.7V	37.2V	34.8V	37.5V	35.1V	37.7V	35.3V	37.9V	35.5V
Maximum Power Current(Imp)	17.27A	14.00A	17.31A	14.04A	17.36A	14.08A	17.42A	14.13A	17.46A	14.16A
Maximum Power Voltage(Vmpp)	30.7V	28.7V	30.9V	28.9V	31.1V	29.1V	31.3V	29.2V	31.5V	29.4V
Module Efficiency	20.70%		20.90%		21.09%		21.29%		21.48%	
Power Tolerance	0~+5W		0~+5W		0~+5W		0~+5W		0~+5W	
Maximum System Voltage	VDC 1500V									
Maximum Series Fuse	30A									
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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