

# Mars Series

575W/580W/585W/590W/595W/

## SUN 78M-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

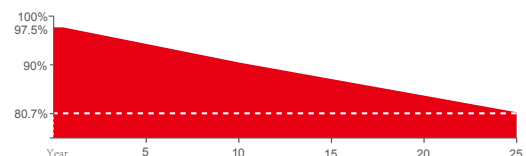
### SUNERGY USA WORKS LLC

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 90% Power Output
- 25 Years 80% Power Output

### QUALIFICATIONS AND CERTIFICATES

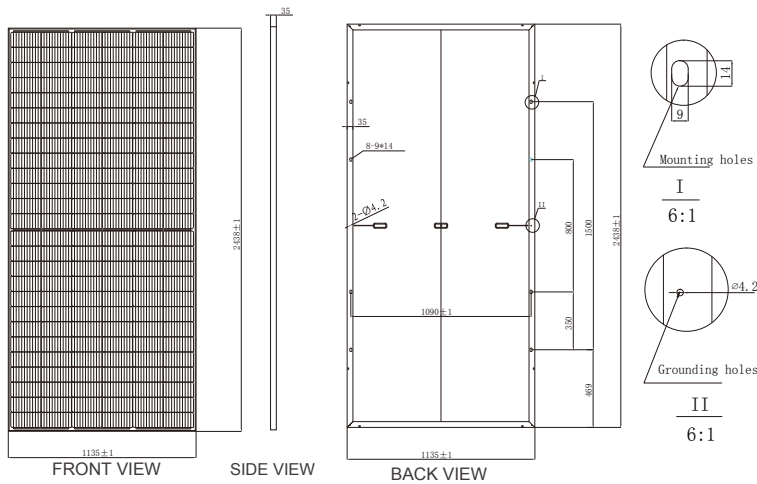


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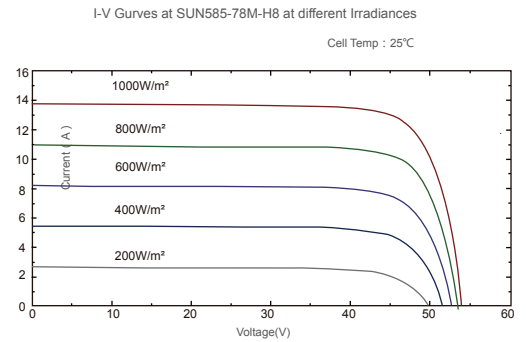


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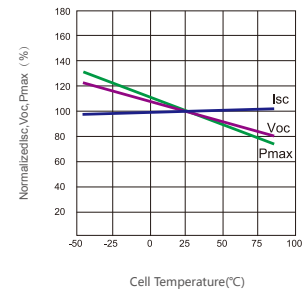
## MECHANICAL DRAWINGS



## I-V CURVES



Power voltage current curve at different temperature



## MECHANICAL SPECIFICATION

Cell Type	Mono Crystalline 182x91mm
Number Of Cells	156 (6x26)
Dimensions(AxBxC)	2438x1135x35mm
Weights	31.0kg
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	30
Pallets Per Container	18
Pieces Per Container	540

## ELECTRICAL CHARACTERISTICS

Module Type	575W		580W		585W		590W		595W	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power At STC(Pmax)	575W	433.1W	580W	436.9W	585W	440.7W	590W	444.4W	595W	448.2W
Short Circuit Current(Isc)	13.61A	11.00A	13.67A	11.05A	13.73A	11.09A	13.78A	11.13A	13.84A	11.18A
Open Circuit Voltage(Voc)	53.5V	50.0V	53.7V	50.2V	53.9V	50.4V	54.1V	50.6V	54.3V	50.7V
Maximum Power Current(Imp)	12.78A	10.42A	12.84A	10.47A	12.89A	10.52A	12.94A	10.55A	12.99A	10.60A
Maximum Power Voltage(Vmpp)	45.0V	41.6V	45.2V	41.7V	45.4V	41.9V	45.6V	42.1V	45.8V	42.3V
Module Efficiency	20.78%		20.96%		21.14%		21.32%		21.50%	
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.



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