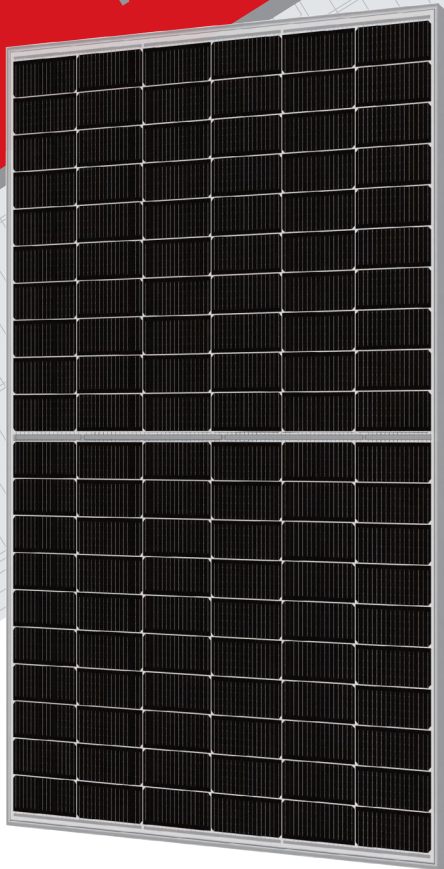


# Mars Series

480W/485W/490W/495W/500W/505W

## SUN 60M-H8N

N-Type TOPCon HALF-CELL MONO PV MODULE



### COMPREHENSIVE CERTIFICATES

IEC61215 / IEC61730 / IEC61701 / IEC62716 / IEC62804  
ISO 9001: 2015 Quality management systems;  
ISO 14001: 2015 Environmental management systems;  
ISO 45001: 2018 Occupational health and safety management systems;

### Sunergy Advantages



#### 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

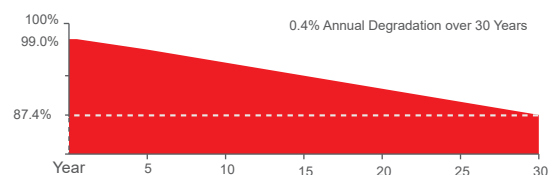
Founded in 2008, Sunergy is a manufacturer of high-performance photovoltaic products. With 12 manufacturing bases and more than 20 branches around the world, the company's business covers modules, photovoltaic power stations and EPC. Sunergy products are available in over 120 countries and regions and 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 94.6% Power Output
- 30 Years 87.4% Power Output

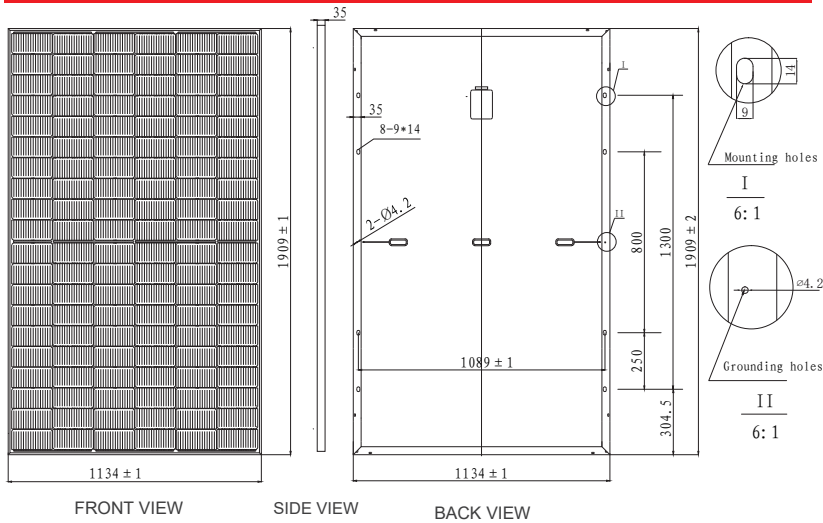


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[www.sunergyworks.com](http://www.sunergyworks.com)

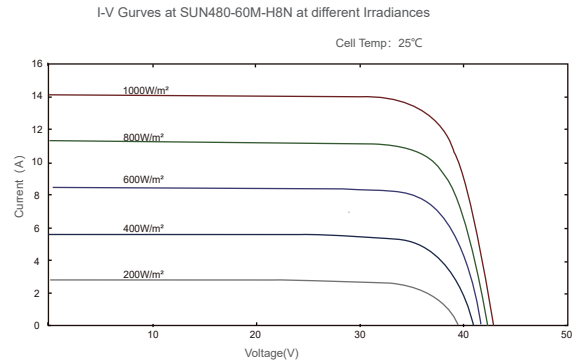


# Mars Series SUN 60M-H8N

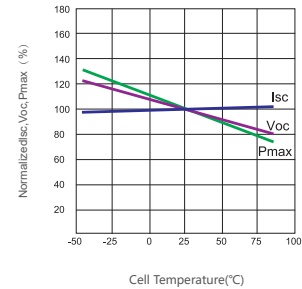
## MECHANICAL DRAWINGS



## I-V CURVES



Power voltage current curve at different temperature



## MECHANICAL SPECIFICATION

Cell Type	N-Type Mono Crystalline
Number Of Cells	120 (6x20)
Dimensions(AxBxC)	1909x1134x35mm
Weights	22.8kg
Glass	3.2mm Tempered Low Iron Glass
Aluminium Frame	Anodised Aluminium
Junction Box	Split Junction Box (IP68 ,three diode)
Connector	Mc4 Compatible
Output Cables	4.0mm <sup>2</sup> , +300mm, -300mm Customized Length

## PACKING CONFIGURATION

Container	40' HQ
Pieces Per Pallet	31
Pallets Per Container	24
Pieces Per Container	744

## ELECTRICAL CHARACTERISTICS

Module Type	480W		485W		490W		495W		500W		505W	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power At STC(Pmax)	480W	362.3W	485W	366.1W	490W	369.9W	495W	373.6W	500W	377.4W	505W	381.2W
Short Circuit Current(Isc)	14.26A	11.58A	14.34A	11.65A	14.41A	11.70A	14.49A	11.77A	14.59A	11.85A	14.67A	11.92A
Open Circuit Voltage(Voc)	42.94V	40.67V	43.09V	40.81V	43.24V	40.95V	43.39V	41.10V	43.54V	41.24V	43.69V	41.38V
Maximum Power Current(Imp)	13.48A	10.95A	13.56A	11.01A	13.64A	11.06A	13.72A	11.12A	13.81A	11.20A	13.89A	11.26A
Maximum Power Voltage(Vmpp)	35.63V	33.10V	35.78V	33.25V	35.93V	33.43V	36.08V	33.59V	36.22V	33.69V	36.37V	33.85V
Module Efficiency	22.2%		22.4%		22.6%		22.9%		23.1%		23.3%	
Power Tolerance	0~+5W		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	-0.30%/°C											
Temperature Coefficient Of Voc	-0.25%/°C											
Temperature Coefficient Of Isc	0.046%/°C											

STC: 1000W/m<sup>2</sup> irradiance, 25°C cell temperature, AM1.5. NOCT: Irradiance at 800W/m<sup>2</sup>, Ambient Temperature 20°C, wind speed 1m/s.



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