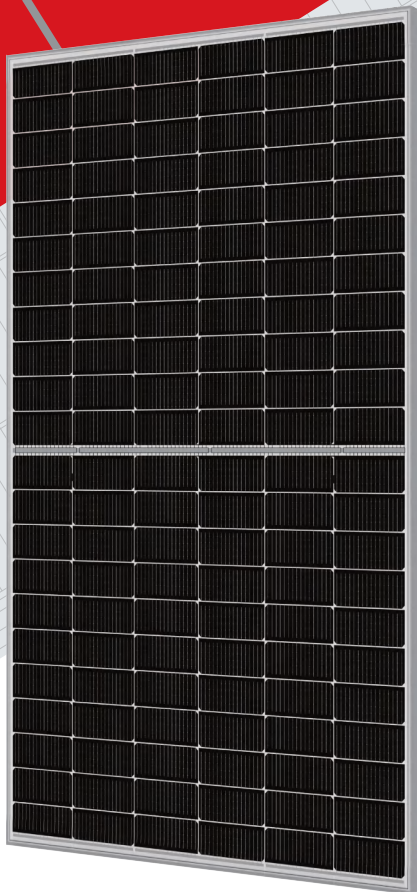


# Mars Series

510W/515W/520W/525W/530W

# SUN 66M-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;  
OHSAS 18001: 2007 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

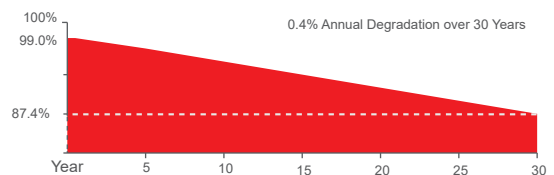
Founded in 2008, Sunergy is a manufacturer of high-performance photovoltaic products. With 12 manufacturing bases and more than 20 branches around the world, the company's business covers modules, photovoltaic power stations and EPC. Sunergy products are available in over 120 countries and regions and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

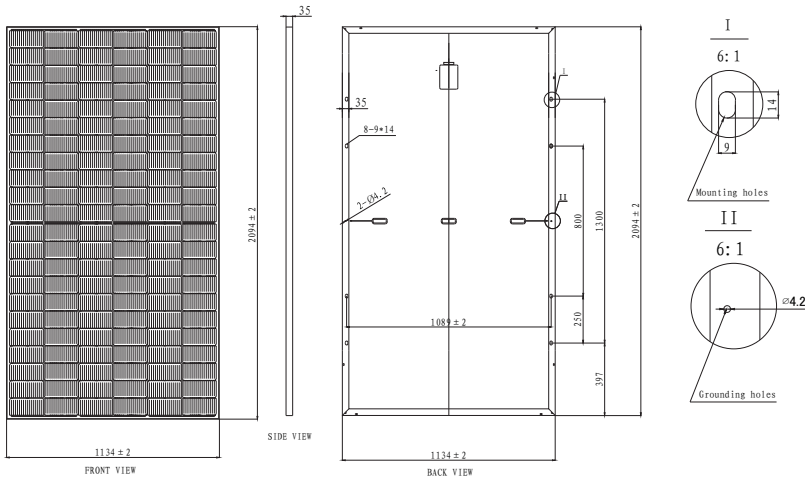


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[www.sunergyworks.com](http://www.sunergyworks.com)

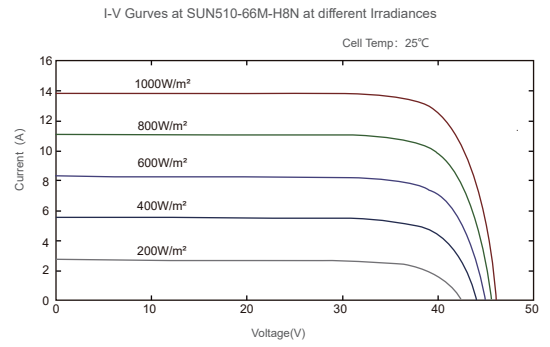


# Mars Series SUN 66M-H8N

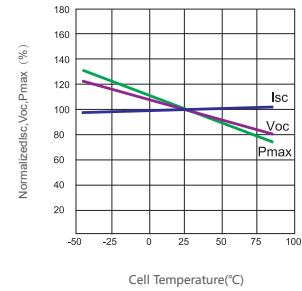
## MECHANICAL DRAWINGS



## I-V CURVES



Power voltage current curve at different temperature



## MECHANICAL SPECIFICATION

Cell Type	N-Type Mono Crystalline 182x91mm
Number Of Cells	132 (6x22)
Dimensions(AxBxC)	2094x1134x35mm
Weights	26.0kg
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	22
Pieces Per Container	682

## ELECTRICAL CHARACTERISTICS

Module Type	510W		515W		520W		525W		530W	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power At STC(Pmax)	510W	385.0W	515W	388.7W	520W	392.5W	525W	396.3W	530W	400.1W
Short Circuit Current(Isc)	13.98A	11.36A	14.07A	11.43A	14.14A	11.49A	14.23A	11.56A	14.31A	11.62A
Open Circuit Voltage(Voc)	46.38V	43.93V	46.53V	44.07V	46.68V	44.21V	46.83V	44.36V	46.98V	44.50V
Maximum Power Current(Imp)	13.23A	10.73A	13.31A	10.80A	13.38A	10.86A	13.46A	10.92A	13.54A	10.99A
Maximum Power Voltage(Vmpp)	38.56V	35.87V	38.71V	35.99V	38.86V	36.16V	39.01V	36.27V	39.16V	36.41V
Module Efficiency	21.5%		21.7%		21.9%		22.1%		22.3%	
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	-0.30%/°C									
Temperature Coefficient Of Voc	-0.25%/°C									
Temperature Coefficient Of Isc	0.046%/°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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