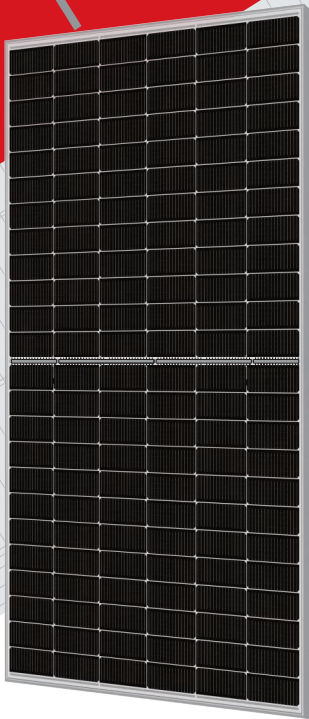


# Mars Series

565W/570W/575W/580W/585W

## SUN 72M-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

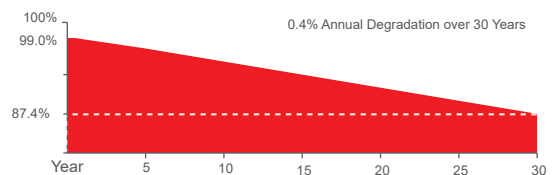
Founded in 2008, Sunergy is a manufacturer of high-performance photovoltaic products. With 12 manufacturing bases and more than 20 branches around the world, the company's business covers modules, photovoltaic power stations and EPC. Sunergy products are available in over 120 countries and regions and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

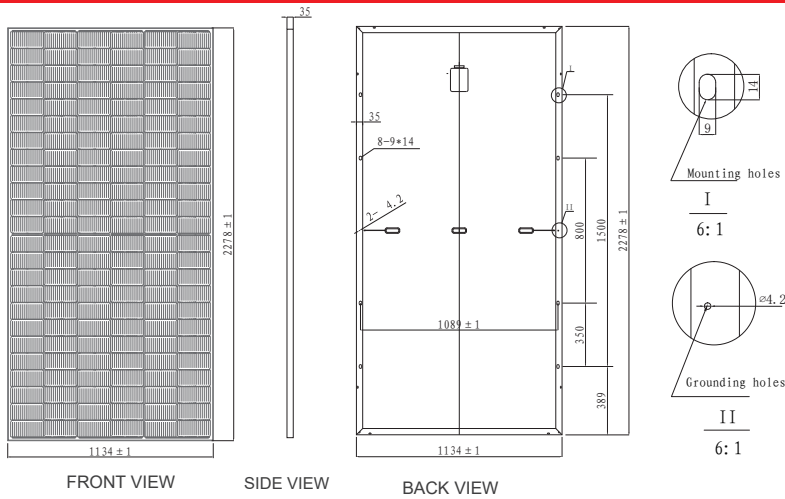


SUNERGY USA WORKS LLC  
[www.sunergyworks.com](http://www.sunergyworks.com)

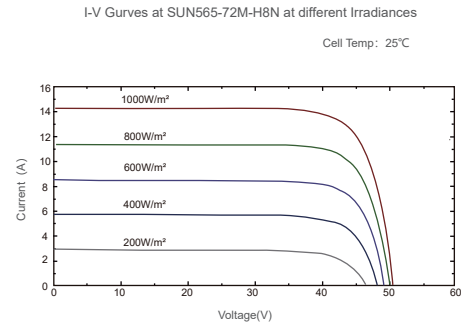


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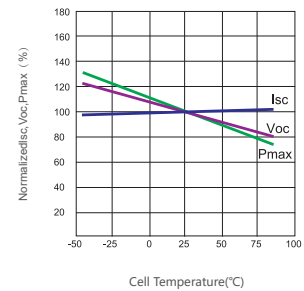
## MECHANICAL DRAWINGS



## I-V CURVES



Power voltage current curve at different temperature



## MECHANICAL SPECIFICATION

Cell Type	N-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	4.0mm <sup>2</sup> ,+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	565W		570W		575W		580W		585W	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power At STC(Pmax)	565W	426.5W	570W	430.2W	575W	434.0W	580W	437.8W	585W	441.6W
Short Circuit Current(Isc)	14.11A	11.46A	14.18A	11.52A	14.26A	11.58A	14.33A	11.64A	14.39A	11.69A
Open Circuit Voltage(Voc)	50.87V	48.18V	51.02V	48.32V	51.17V	48.47V	51.32V	48.61V	51.47V	48.75V
Maximum Power Current(Imp)	13.35A	10.83A	13.42A	10.89A	13.49A	10.95A	13.56A	11.00A	13.63A	11.05A
Maximum Power Voltage(Vmpp)	42.33V	39.37V	42.48V	39.52V	42.63V	39.65V	42.78V	39.79V	42.93V	39.97V
Module Efficiency	21.90%		22.1%		22.3%		22.5%		22.6%	
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/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.

