

# Mars Series

405W/410W/415W/420W

## SUN 66M-H6

MBB 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;

### KEY SALIENT FEATURES



High output power



Better power generation under shadows



Strong anti-hot spot ability



Strong mechanical load capacity



Super strong frame

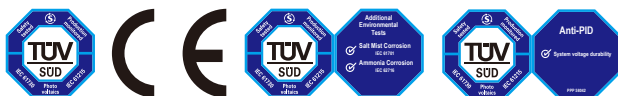


1500V system voltage

### SUNERGY USA WORKS LLC

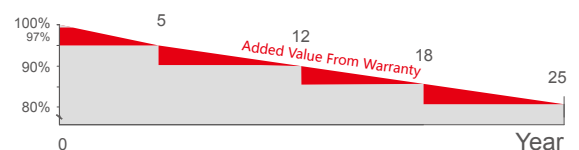
Founded in 2008, Sunergy is a manufacturer of high-performance photovoltaic products. With 12 manufacturing bases and more than 20 branches around the world, the company's business covers modules, photovoltaic power stations and EPC. Sunergy products are available in over 120 countries and regions and are used extensively in ground-mounted power plants, commercial & industrial rooftop PV systems and residential rooftop PV systems.

### QUALIFICATIONS AND CERTIFICATES



### LINEAR PERFORMANCE WARRANTY

- 12 Years Manufacturing Warranty
- 12 Years 90% Power Output
- 25 Years 80% Power Output

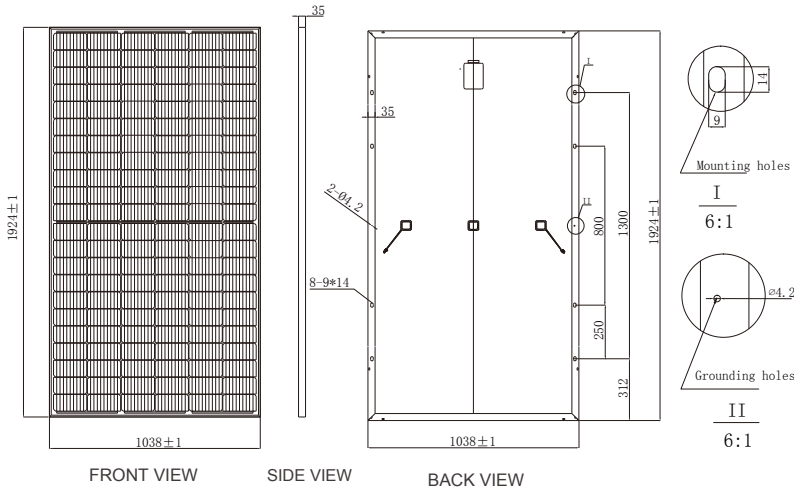


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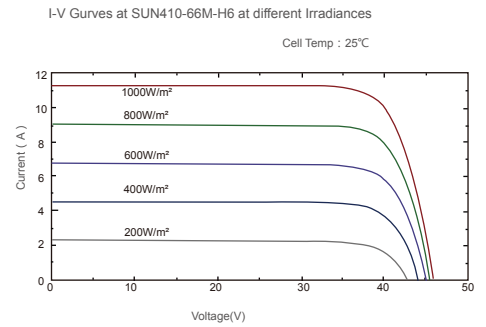


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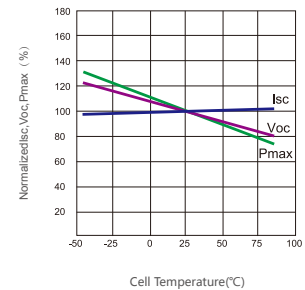
## MECHANICAL DRAWINGS



## I-V CURVES



Power voltage current curve at different temperature



## MECHANICAL SPECIFICATION

Cell Type	Mono Crystalline 166x83mm
Number Of Cells	132 (6x22)
Dimensions(AxBxC)	1924x1038x35mm
Weights	22.5kg
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	31
Pallets Per Container	24
Pieces Per Container	768

## ELECTRICAL CHARACTERISTICS

Module Type	405W		410W		415W		420W	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power At STC(Pmax)	405W	304.4W	410W	308.2W	415W	311.9W	420W	315.7W
Short Circuit Current(Isc)	11.25A	9.09A	11.34A	9.16A	11.41A	9.22A	11.49A	9.28A
Open Circuit Voltage(Voc)	45.6V	42.5V	45.9V	42.8V	46.2V	43.1V	46.5V	43.4V
Maximum Power Current(Imp)	10.77A	8.62A	10.85A	8.69A	10.92A	8.74A	10.99A	8.80A
Maximum Power Voltage(Vmpp)	37.6V	35.3V	37.8V	35.5V	38.0V	35.7V	38.2V	35.9V
Module Efficiency	20.28%		20.53%		20.78%		21.03%	
Power Tolerance	0~+5W		0~+5W		0~+5W		0~+5W	
Maximum System Voltage	VDC 1500V							
Maximum Series Fuse	20A							
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	-0.36%/°C							
Temperature Coefficient Of Voc	-0.29%/°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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