

Mars Series

405W/410W/415W/420W

SUN 66M-H6 (BK)

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;

Sunergy Advantages



Power attenuation rate surpass than industry standards

As the CTC randomization test, our attenuation rate is 1.81%, 0.31% and 0.34% in the 1st, 2nd and 3rd year, which is much less than the national standard value of 2% and 0.55%.



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.



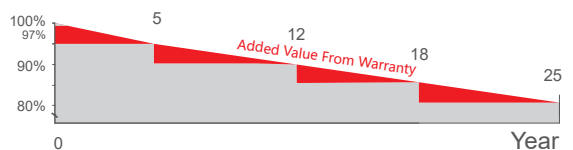
IP68 junction box

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

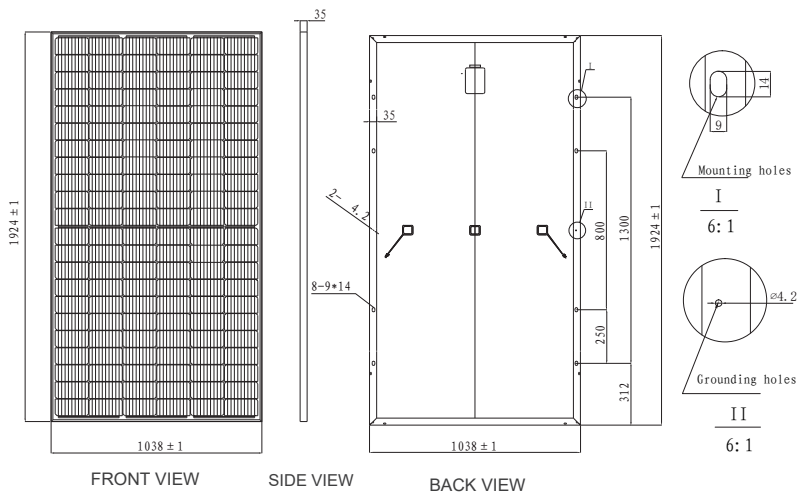


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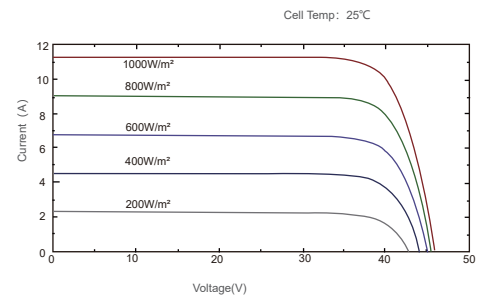
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MECHANICAL DRAWINGS

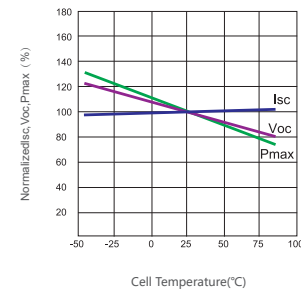


I-V CURVES

I-V Curves at SUN410-66M-H6(BK) at different Irradiances



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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