

Mars Series

445W/450W/455W/460W

SUN 72M-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

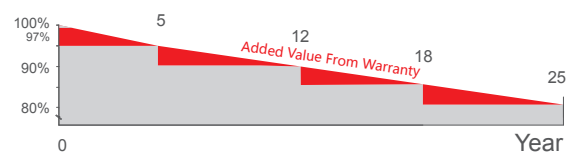
Founded in 2008, Sunergy is a manufacturer of high-performance photovoltaic products. With 12 manufacturing bases and more than 20 branches around the world, the company's business covers modules, photovoltaic power stations and EPC. Sunergy products are available in over 120 countries and regions and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

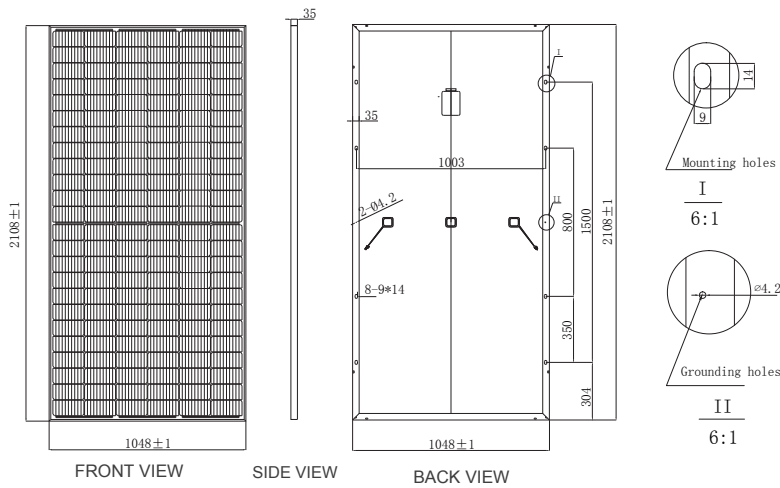


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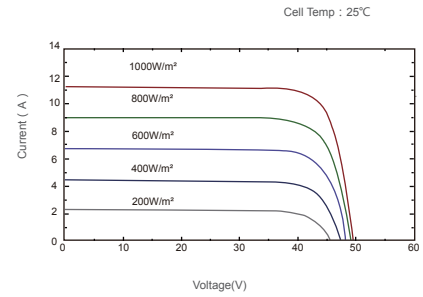
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MECHANICAL DRAWINGS

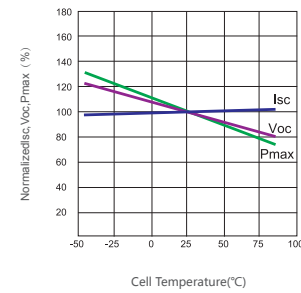


I-V CURVES

I-V Curves at SUN445-72M-H6 at different Irradiances



Power voltage current curve at different temperature



MECHANICAL SPECIFICATION

Cell Type	Mono Crystalline 166x83mm
Number Of Cells	144 (6x24)
Dimensions(AxBxC)	2108x1048x35mm
Weights	24.5kg
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	22
Pieces Per Container	704

ELECTRICAL CHARACTERISTICS

Module Type	445W		450W		455W		460W	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power At STC(Pmax)	445W	334.5W	450W	338.3W	455W	342.0W	460W	345.8W
Short Circuit Current(Isc)	11.29A	9.12A	11.36A	9.18A	11.43A	9.24A	11.50A	9.29A
Open Circuit Voltage(Voc)	49.7V	46.3V	50.0V	46.6V	50.3V	46.9V	50.6V	47.2V
Maximum Power Current(Imp)	10.80A	8.65A	10.87A	8.70A	10.94A	8.75A	11.01A	8.71A
Maximum Power Voltage(Vmpp)	41.2V	38.7V	41.4V	38.9V	41.6V	39.1V	41.8V	39.3V
Module Efficiency	20.14%		20.37%		20.60%		20.82%	
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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