

Mars Series

445W/450W/455W/460W

SUN 72MD-H6S

HALF-CELL BIFACIAL MBB MONO
PERC DOUBLE GLASS 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



Enhanced safety



Easy to install



High tolerance for harsh environment and extreme weather conditions

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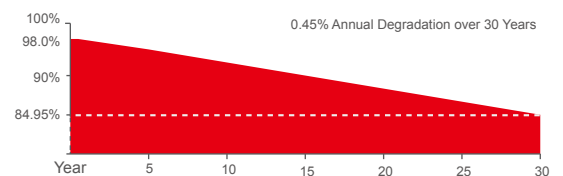
Founded in 2008, Sunergy is a manufacturer of high-performance photovoltaic products. With 12 manufacturing bases and more than 20 branches around the world, the company's business covers modules, photovoltaic power stations and EPC. Sunergy products are available in over 120 countries and regions and 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 93% Power Output
- 30 Years 84.95% Power Output

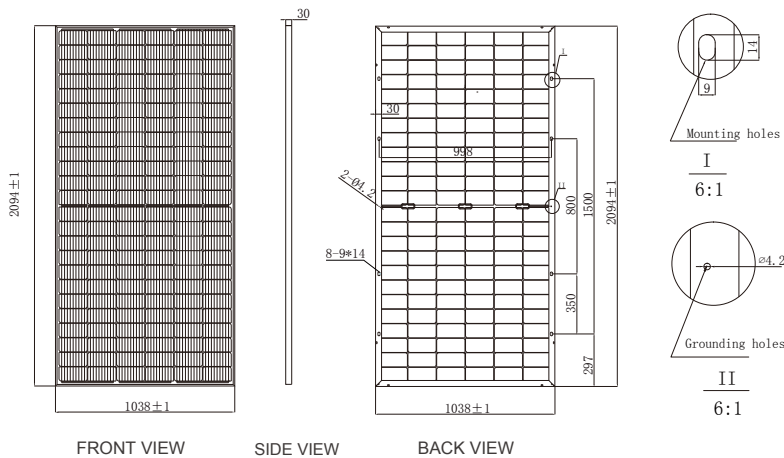


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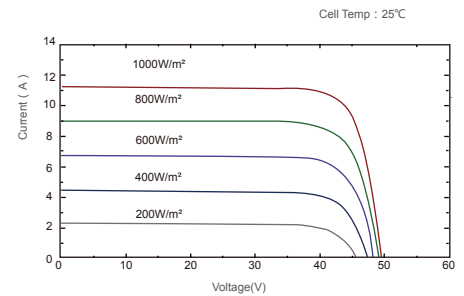
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MECHANICAL DRAWINGS

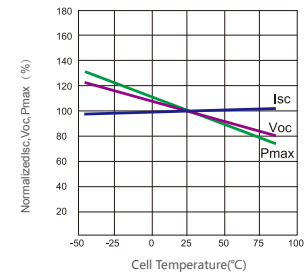


I-V CURVES

I-V Curves at SUN445-72MD-H6S at different Irradiances



Power voltage current curve at different temperature



MECHANICAL SPECIFICATION

Cell Type	Mono Crystalline 166x83mm
Number Of Cells	144 (6x24)
Dimensions(AxBxC)	2094x1038x30mm
Weights	28.5kg
Glass	2.0/2.0mm 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	36
Pallets Per Container	20
Pieces Per Container	720

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	8.81A
Maximum Power Voltage(Vmpp)	41.2V	38.7V	41.4V	38.9V	41.6V	39.1V	41.8V	39.3V
Module Efficiency	20.47%		20.70%		20.93%		21.16%	
Power Tolerance	0~+5W		0~+5W		0~+5W		0~+5W	

ELECTRICAL CHARACTERISTICS WITH DIFFERENT REAR SIDE POWER GAIN

(Reference to 450W Front)

Backside Power Gain	5%	10%	15%	20%	25%
Maximum Power At STC(Pmax)	473	495	518	540	563
Short Circuit Current(Isc)	11.93	12.49	13.06	13.60	14.16
Open Circuit Voltage(Voc)	50.0	50.0	50.0	50.1	50.1
Maximum Power Current(Imp)	11.41	11.96	12.50	13.01	13.55
Maximum Power Voltage(Vmpp)	41.4	41.4	41.4	41.5	41.5

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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