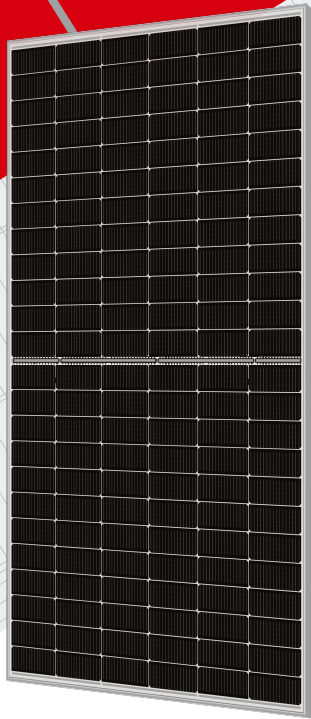


Mars Series

560W/565W/570W/575W/580W

SUN 72MD-H8NS

HALF-CELL BIFACIAL SMBB MONO
N-Type TOPCon 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

SUNERGY USA WORKS LLC

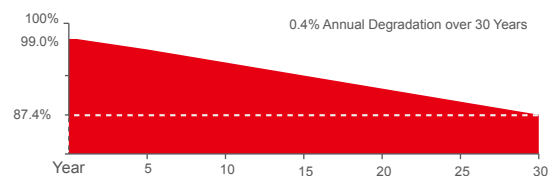
Founded in 2008, Sunergy is a manufacturer of high-performance photovoltaic products. With 12 manufacturing bases and more than 20 branches around the world, the company's business covers modules, photovoltaic power stations and EPC. Sunergy products are available in over 120 countries and regions and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

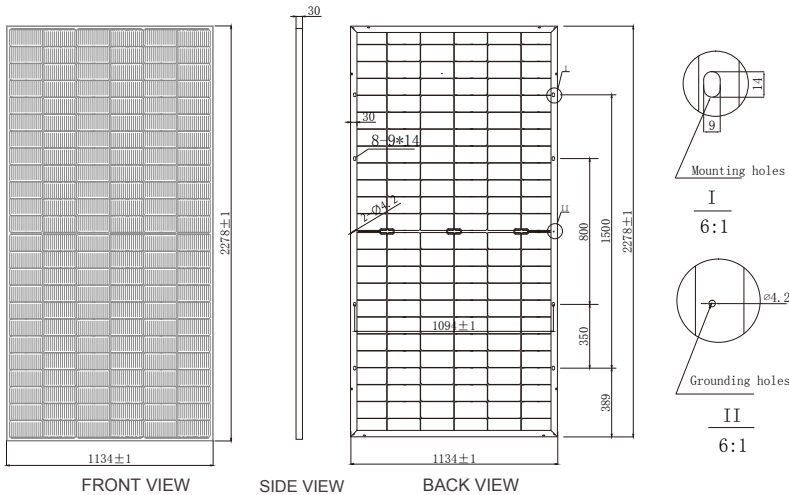


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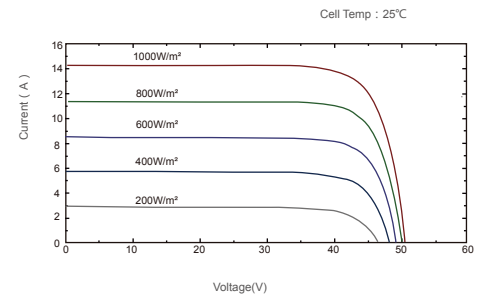
Mars Series SUN 72MD-H8NS

MECHANICAL DRAWINGS

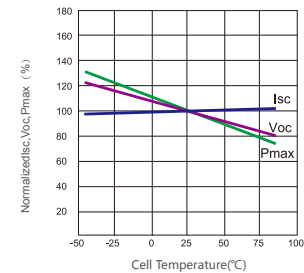


I-V CURVES

I-V Curves at SUN565-72MD-H8NS at different Irradiances



Power voltage current curve at different temperature



MECHANICAL SPECIFICATION

Cell Type	N-Type Mono Crystalline 182x91mm
Number Of Cells	144 (6x24)
Dimensions(AxBxC)	2278x1134x30mm
Weights	33.0kg
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	560W		565W		570W		575W		580W	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power At STC(Pmax)	560W	422.7W	565W	426.5W	570W	430.2W	575W	434.0W	580W	437.8W
Short Circuit Current(Isc)	14.04A	11.40A	14.11A	11.46A	14.18A	11.52A	14.26A	11.58A	14.33A	11.64A
Open Circuit Voltage(Voc)	50.72V	48.04V	50.87V	48.18V	51.02V	48.32V	51.17V	48.47V	51.32V	48.61V
Maximum Power Current(Imp)	13.28A	10.78A	13.35A	10.83A	13.42A	10.89A	13.49A	10.95A	13.56A	11.00A
Maximum Power Voltage(Vmpp)	42.18V	39.22V	42.33V	39.37V	42.48V	39.52V	42.63V	39.65V	42.78V	39.79V
Module Efficiency	21.70%		21.90%		22.1%		22.3%		22.5%	
Power Tolerance	0~+5W		0~+5W		0~+5W		0~+5W		0~+5W	

Maximum System Voltage	VDC 1500V
Maximum Series Fuse	30A
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

ELECTRICAL CHARACTERISTICS WITH DIFFERENT REAR SIDE POWER GAIN

(Reference to 565W Front)

	10%	15%	20%	25%	30%
Backside Power Gain	10%	15%	20%	25%	30%
Maximum Power At STC(Pmax)	621.5	650.0	678.0	706.0	734.5
Short Circuit Current(Isc)	15.48	16.18	16.87	17.55	18.25
Open Circuit Voltage(Voc)	51.07	51.27	51.47	51.67	51.87
Maximum Power Current(Imp)	14.61	15.27	15.91	16.56	17.21
Maximum Power Voltage(Vmpp)	42.55	42.58	42.61	42.64	42.67

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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