

Mars Series

530W/535W/540W/545W/550W

SUN 72MD-H8S

HALF-CELL BIFACIAL MBB MONO
PERC DOUBLE GLASS MODULE
182MM CELLS



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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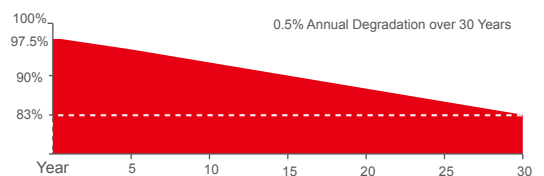
Founded in 2008, Sunergy is a manufacturer of high-performance photovoltaic products. With 12 manufacturing bases and more than 20 branches around the world, the company's business covers modules, photovoltaic power stations and EPC. Sunergy products are available in over 120 countries and regions and 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 92% Power Output
- 30 Years 83% Power Output

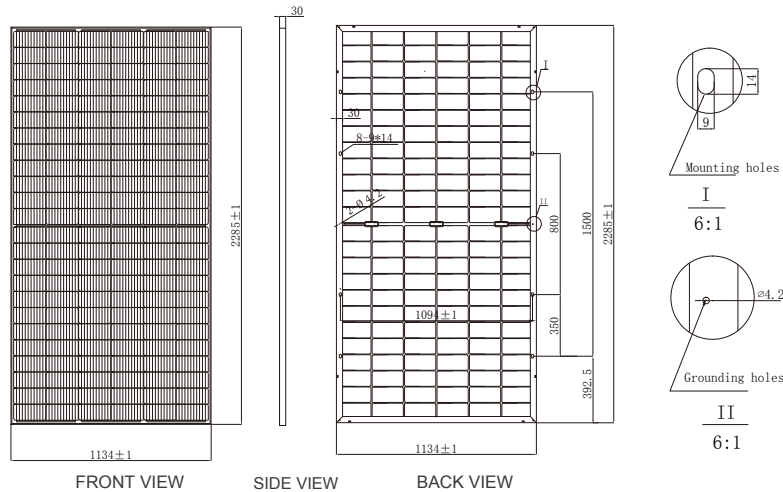


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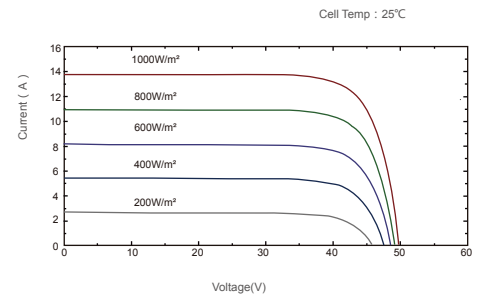
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MECHANICAL DRAWINGS

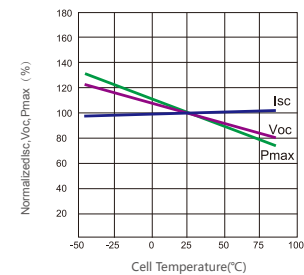


I-V CURVES

I-V Curves at SUN540-72MD-H8S at different Irradiances



Power voltage current curve at different temperature



MECHANICAL SPECIFICATION

Cell Type	Mono Crystalline 182x91mm
Number Of Cells	144 (6x24)
Dimensions(AxBxC)	2285x1134x30mm
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	4.0mm ² ,+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	530W		535W		540W		545W		550W	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power At STC(Pmax)	530W	399.2W	535W	403.0W	540W	406.8W	545W	410.5W	550W	414.3W
Short Circuit Current(Isc)	13.58A	10.97A	13.63A	11.01A	13.70A	11.07A	13.76A	11.12A	13.82A	11.17A
Open Circuit Voltage(Voc)	49.4V	46.2V	49.6V	46.4V	49.8V	46.5V	50.0V	46.7V	50.2V	46.9V
Maximum Power Current(Imp)	12.75A	10.40A	12.80A	10.44A	12.86A	10.49A	12.92A	10.54A	12.98A	10.58A
Maximum Power Voltage(Vmpp)	41.6V	38.4V	41.8V	38.6V	42.0V	38.8V	42.2V	39.0V	42.4V	39.1V
Module Efficiency	20.45%		20.67%		20.84%		21.03%		21.23%	
Power Tolerance	0~+5W		0~+5W		0~+5W		0~+5W		0~+5W	

ELECTRICAL CHARACTERISTICS WITH DIFFERENT REAR SIDE POWER GAIN

(Reference to 535W Front)

	5%	10%	15%	20%	25%
Backside Power Gain	5%	10%	15%	20%	25%
Maximum Power At STC(Pmax)	562	598	615	642	669
Short Circuit Current(Isc)	14.28	14.97	15.63	16.28	16.96
Open Circuit Voltage(Voc)	50.0	50.0	50.0	50.2	50.2
Maximum Power Current(Imp)	13.41	14.06	14.68	15.29	15.93
Maximum Power Voltage(Vmpp)	41.9	41.9	41.9	42.0	42.0

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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