

Mars Series

330W/335W/340W/345W/350W

SUN 60MD-HFS



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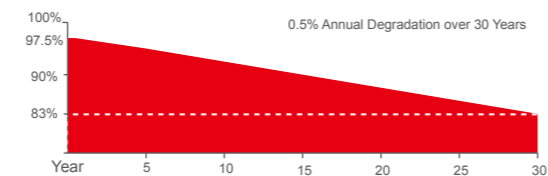
Founded in 2008, Sunergy is a manufacturer of high-performance photovoltaic products. With 12 manufacturing bases and more than 20 branches around the world, the company's business covers modules, photovoltaic power stations and EPC. Sunergy products are available in over 120 countries and regions and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

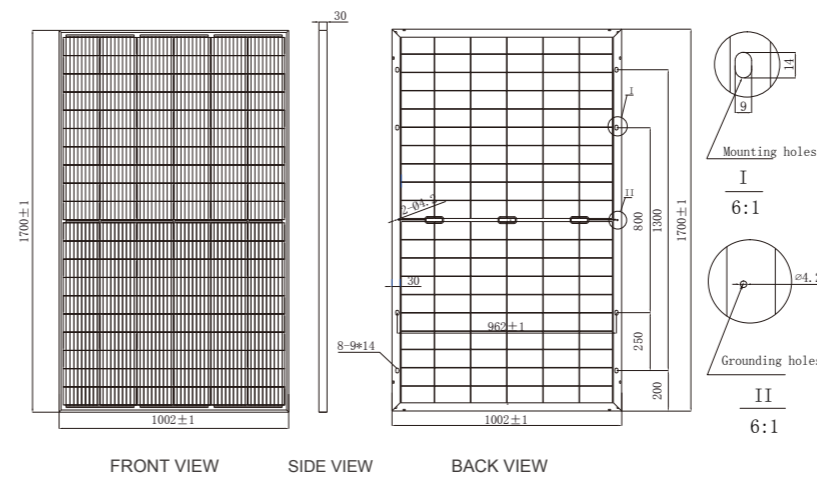


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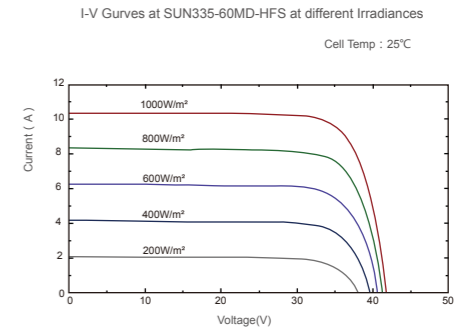


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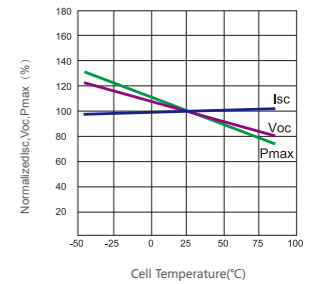
MECHANICAL DRAWINGS



I-V CURVES



Power voltage current curve at different temperature



MECHANICAL SPECIFICATION

Cell Type	Mono Crystalline 158.75x79.375mm
Number Of Cells	120 (6x20)
Dimensions(AxBxC)	1700x1002x30mm
Weights	22.5kg
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

ELECTRICAL CHARACTERISTICS

Module Type	330W		335W		340W		345W		350W	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power At STC(Pmax)	330W	248.1W	335W	251.8W	340W	255.6W	345W	259.3W	350W	263.1W
Short Circuit Current(Isc)	10.30A	8.34A	10.39A	8.41A	10.48A	8.48A	10.57A	8.56A	10.66A	8.63A
Open Circuit Voltage(Voc)	41.6V	38.8V	41.8V	39.0V	42.0V	39.2V	42.3V	39.4V	42.5V	39.6V
Maximum Power Current(Impp)	9.76A	7.90A	9.85A	7.97A	9.94A	8.04A	10.03A	8.11A	10.12A	8.18A
Maximum Power Voltage(Vmpp)	33.8V	31.4V	34.0V	31.6V	34.2V	31.8V	34.4V	32.0V	34.6V	32.2V
Module Efficiency	19.37%		19.67%		19.96%		20.25%		20.55%	
Power Tolerance	0~+5W		0~+5W		0~+5W		0~+5W		0~+5W	

ELECTRICAL CHARACTERISTICS WITH DIFFERENT REAR SIDE POWER GAIN

(Reference to 335W Front)

Backside Power Gain	5%	10%	15%	20%	25%
Maximum Power At STC(Pmax)	352	369	385	402	419
Short Circuit Current(Isc)	10.90	11.43	11.92	12.41	12.94
Open Circuit Voltage(Voc)	41.8	41.8	41.8	41.9	41.9
Maximum Power Current(Impp)	10.35	10.85	11.32	11.79	12.29
Maximum Power Voltage(Vmpp)	34.0	34.0	34.0	34.1	34.1

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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