

# Mars Series

370W/375W/380W

## SUN 60MD-H6S





HALF-CELL BIFACIAL MBB MONO PERC DOUBLE GLASS MODULE



### COMPREHENSIVE CERTIFICATES

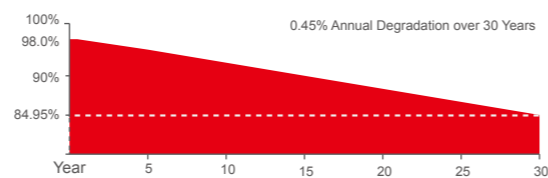
IEC61215 / IEC61730 / IEC61701 / IEC62716 / IEC62804  
 ISO 9001: 2015 Quality management systems;  
 ISO 14001: 2015 Environmental management systems;  
 OHSAS 18001: 2007 Occupational health and safety management systems;

### 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**

### LINEAR PERFORMANCE WARRANTY

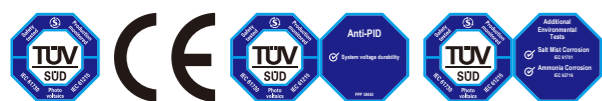
- 12 Years Manufacturing Warranty
- 12 Years 93% Power Output
- 30 Years 84.95% Power Output



### 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

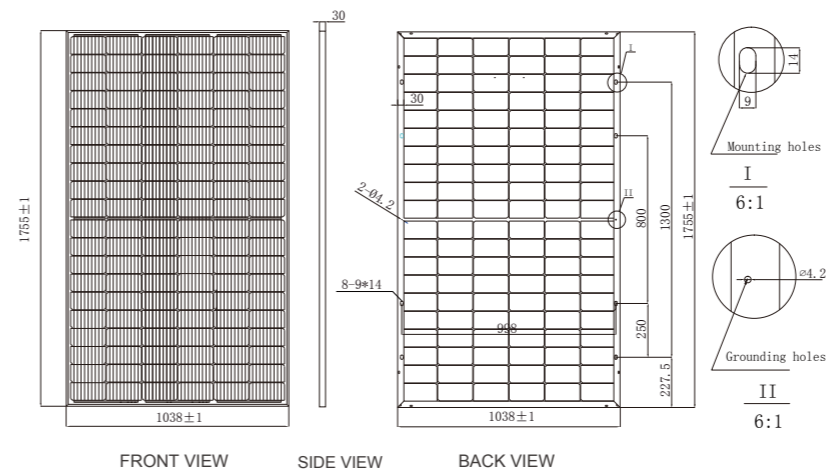


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### MECHANICAL DRAWINGS



### MECHANICAL SPECIFICATION

Cell Type	Mono Crystalline 166x83mm
Number Of Cells	120 (6x20)
Dimensions(AxBxC)	1755x1038x30mm
Weights	24.0kg
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 <sup>2</sup> ,+300mm,-300mm Customized Length

### ELECTRICAL CHARACTERISTICS

Module Type	370W		375W		375W	
	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power At STC(Pmax)	370W	278.1W	375W	281.9W	380W	285.6W
Short Circuit Current(Isc)	11.26A	9.10A	11.34A	9.16A	11.42A	9.23A
Open Circuit Voltage(Voc)	41.3V	38.5V	41.5V	38.7V	41.7V	38.9V
Maximum Power Current(Impp)	10.76A	8.62A	10.84A	8.69A	10.92A	8.75A
Maximum Power Voltage(Vmpp)	34.4V	32.3V	34.6V	32.5V	34.8V	32.7V
Module Efficiency	20.31%		20.58%		20.86%	
Power Tolerance	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					

### ELECTRICAL CHARACTERISTICS WITH DIFFERENT REAR SIDE POWER GAIN

(Reference to 370W Front)

Backside Power Gain	5%	10%	15%	20%	25%
Maximum Power At STC(Pmax)	389	407	426	444	463
Short Circuit Current(Isc)	11.82	12.37	12.95	13.46	14.03
Open Circuit Voltage(Voc)	41.3	41.3	41.3	41.4	41.4
Maximum Power Current(Impp)	11.31	11.83	12.38	12.87	13.42
Maximum Power Voltage(Vmpp)	34.4	34.4	34.4	34.5	34.5

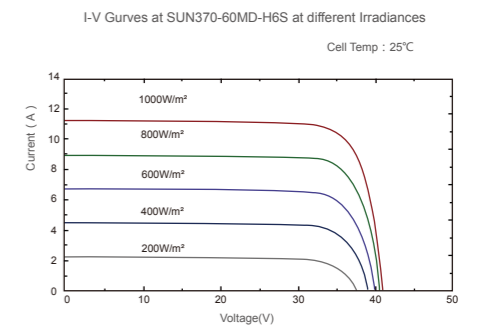
STC: 1000W/m<sup>2</sup> irradiance, 25°C cell temperature, AM1.5. NOCT: Irradiance at 800W/m<sup>2</sup>, Ambient Temperature 20°C, wind speed 1m/s.



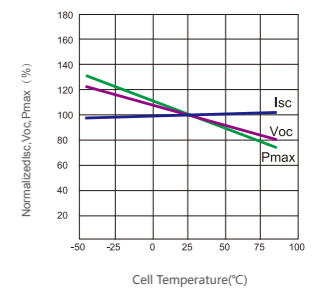
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### I-V CURVES



Power voltage current curve at different temperature



### PACKING CONFIGURATION

Container	40' HQ
Pieces Per Pallet	36
Pallets Per Container	24
Pieces Per Container	864