

# Mars Series

685W/690W/695W/700W/705W/710W

## SUN66MD-H12SJ

HALF-CELL BIFACIAL MBB MONO  
HJT DOUBLE GLASS MODULE  
210MM CELLS



BACK VIEW

FRONT VIEW

### COMPREHENSIVE CERTIFICATES

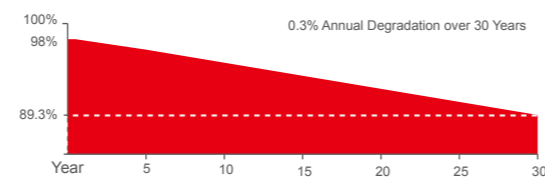
IEC61215 / IEC61730 / IEC61701 / IEC62716 / IEC62804  
ISO 9001: 2015 Quality management systems;  
ISO 14001: 2015 Environmental management systems;  
OHSAS 18001: 2007 Occupational health and safety management systems;

### KEY SALIENT FEATURES

-  **High output power**
-  **Better Temperature Coefficient**
-  **Long weather resistance**
-  **Better power generation under shadows**
-  **Strong anti-hot spot ability**
-  **Enhanced safety**

### LINEAR PERFORMANCE WARRANTY

- 12 Years Manufacturing Warranty
- 12 Years 94.7% Power Output
- 30 Years 89.3% Power Output



### SUNERGY USA WORKS LLC

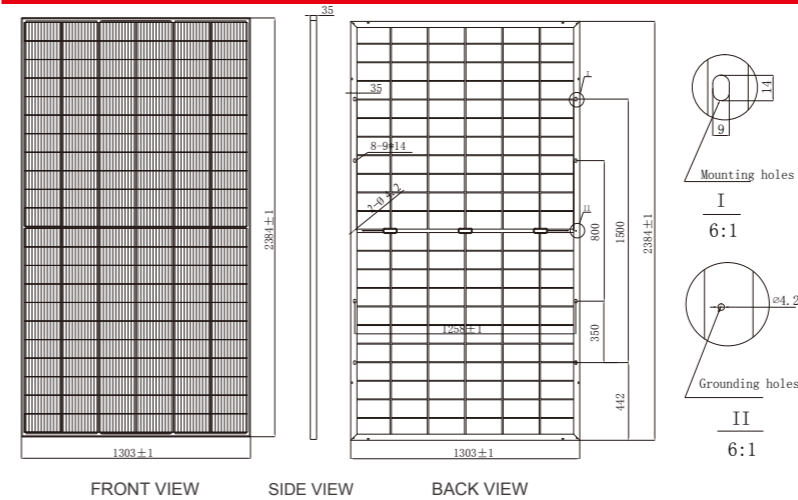
Founded in 2008, Sunergy is a manufacturer of high-performance photovoltaic products. With 12 manufacturing bases and more than 20 branches around the world, the company's business covers modules, photovoltaic power stations and EPC. Sunergy products are available in over 120 countries and regions and are used extensively in ground-mounted power plants, commercial & industrial rooftop PV systems and residential rooftop PV systems.

### QUALIFICATIONS AND CERTIFICATES

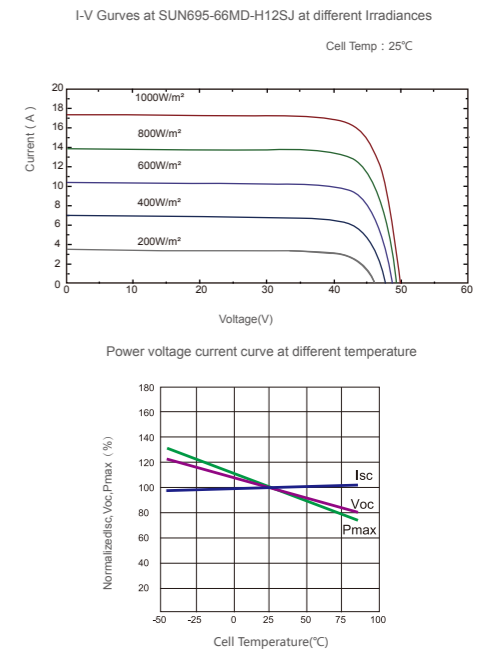


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### MECHANICAL DRAWINGS



### I-V CURVES



### MECHANICAL SPECIFICATION

Cell Type	HJT 210x105mm
Number Of Cells	132 (6x22)
Dimensions(AxBxC)	2384x1303x35mm
Weights	39.5kg
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	685W		690W		695W		700W		705W		710W	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power At STC(Pmax)	685W	529.2W	690W	533.1W	695W	537.0W	700W	540.8W	705W	544.7W	710W	548.6W
Short Circuit Current(Isc)	17.22A	13.89A	17.26A	13.92A	17.31A	13.96A	17.35A	13.99A	17.39A	14.02A	17.43A	14.06A
Open Circuit Voltage(Voc)	49.4V	46.6V	49.6V	46.7V	49.8V	46.9V	50.0V	47.1V	50.2V	47.3V	50.4V	47.5V
Maximum Power Current(Imp)	16.20A	13.06A	16.24A	13.09A	16.28A	13.13A	16.32A	13.16A	16.36A	13.19A	16.40A	13.22A
Maximum Power Voltage(Vmpp)	42.3V	40.5V	42.5V	40.7V	42.7V	40.9V	42.9V	41.1V	43.1V	41.3V	43.3V	41.5V
Module Efficiency	22.05%		22.21%		22.37%		22.53%		22.70%		22.86%	
Power Tolerance	0~+5W		0~+5W		0~+5W		0~+5W		0~+5W		0~+5W	

### ELECTRICAL CHARACTERISTICS WITH DIFFERENT REAR SIDE POWER GAIN

(Reference to 695W Front)

Backside Power Gain	10%	15%	20%	25%	30%
Maximum Power At STC(Pmax)	765	799	834	869	904
Short Circuit Current(Isc)	19.00	19.85	20.62	21.48	22.35
Open Circuit Voltage(Voc)	49.9	49.9	50.1	50.1	50.1
Maximum Power Current(Imp)	17.87	18.67	19.40	20.21	21.02
Maximum Power Voltage(Vmpp)	42.8	42.8	43.0	43.0	43.0

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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