Mars Series 660W/665W/670W/675W SUN 66MD-H12S

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



BACK VIEW

FRONT VIEW

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



COMPREHENSIVE CERTIFICATES

IEC61215 / IEC61730 / IEC61701 / IEC62716 /IEC62804 ISO 9001: 2015 Quality management systems; ISO 14001: 2015 Environmental management systems; ISO 45001: 2018 Occupational health and safety management systems;

Sunergy Advantages



Power attenuation rate surpass than industry standards As the CTC randomization test, our attenuation rate is 1.81%, 0.31% and 0.34% in the 1st.2nd and 3rd year, which is much less than the national standard value of 2% and 0.45%



Overflow tank can be waterproof The excess silicone will flow into the overflow tank, can reduce 3% water vapor entering the panels.



Stronger frame The C side of the frame contains curved hook reinforcement, enhanced the mechanical load strength by 10%



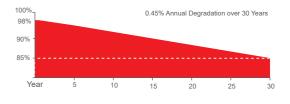
Current grading Current classification effectively avoids 2% power loss caused by current mismatch during installation, achieving max output power



IP68 junction box IP68 junction box offer perfect waterproof performance

LINEAR PERFORMANCE WARRANTY

- 12 Years Manufacturing Warranty
- 12 Years 93% Power Output
- 30 Years 85% Power Output



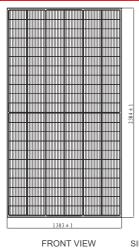
SUNERGY USA WORKS LLC www.sunergyworks.com

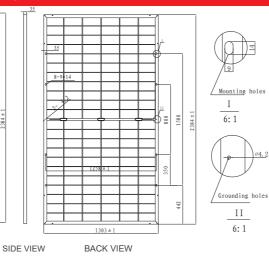




ats Series SUN 66MD-H12S

MECHANICAL DRAWINGS



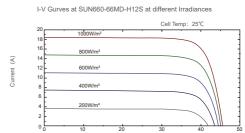


MECHANICAL SPECIFICATION

Cell Type	Mono Crystalline 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	4.0mm ² ,+300mm,-300mm Customized Length

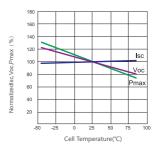
ELECTRICAL CHARACTERISTICS

I-V CURVES



Voltage(V)

Power voltage current curve at different temperature



PACKING CONFIGURATION

Container	40' HQ
Pieces Per Pallet	31
Pallets Per Container	18
Pieces Per Container	558

Module Type	660W	665W	670W	675W	
	STC NOCT	STC NOCT	STC NOCT	STC NOCT	
Maximum Power At STC(Pmax)	660W 500.2W	665W 504.0W	670W 507.8W	675W 511.6W	
Short Circuit Current(Isc)	18.44A 14.90A	18.48A 14.93A	18.51A 14.96A	18.57A 15.00A	
Open Circuit Voltage(Voc)	45.6V 42.7V	45.8V 42.9V	46.0V 43.1V	46.2V 43.3V	
Maximum Power Current(Impp)	17.42A 14.12A	17.46A 14.15A	17.50A 14.18A	17.53A 14.22A	
Maximum Power Voltage(Vmpp)	37.9V 35.4V	38.1V 35.6V	38.3V 35.8V	38.5V 36.0V	
Module Efficiency	21.25%	21.41%	21.57%	21.73%	
Power Tolerance	0~+5W	0~+5W	0~+5W	0~+5W	
Maximum System Voltage	VDC 1500V				

ΙI 6:1

ELECTRICAL CHARACTERISTICS WITH DIFFERENT REAR SIDE POWER GAIN

(Reference to 660W Front)

Backside Power Gain	5%	10%	15%	20%	25%
Maximum Power At STC(Pmax)	693	726	759	792	825
Short Circuit Current(Isc)	19.32	20.24	21.05	21.96	22.88
Open Circuit Voltage(Voc)	45.6	45.6	45.8	45.8	45.8
Maximum Power Current(Impp)	18.19	19.06	19.82	20.68	21.54
Maximum Power Voltage(Vmpp)	38.1	38.1	38.3	38.3	38.3

STC: 1000W/m2 irradiance, 25°C cell temperature, AM1.5. NOCT: Irradiance at 800W/m2 , Ambient Temperature 20°C , wind speed 1m/s .

35A

5400Pa

-40~+85°C

3

45°C±2°C

-0.34%℃

-0.26%°C

0.04%℃



Maximum Series Fuse

Operating Temperature

Number Of Bypass Diodes

Temperature Coefficient Of Pmax

Temperature Coefficient Of Voc

Temperature Coefficient Of Isc

Increased Snowload Acc.to lec 61215

Norminal Operating Cell Temperature(Noct)

SUNERGY USA WORKS LLC www.sunergyworks.com

