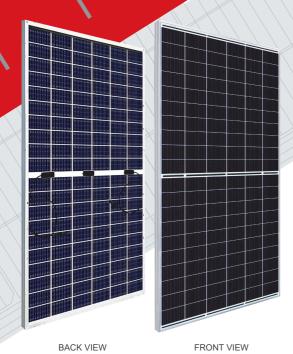
at S Series 95W/600W/605W/610W

OMD-H12S

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



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;

OHSAS 18001: 2007 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 powe

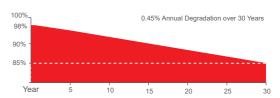


IP68 junction box

IP68 junction box offer perfect waterproof performance

LINEAR PERFORMANCE WARRANTY

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

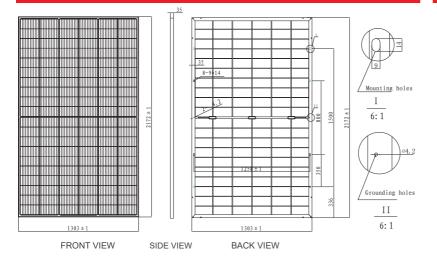


SUNERGY USA WORKS LLC www.sunergyworks.com

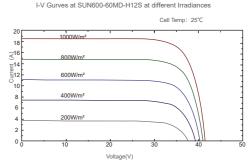




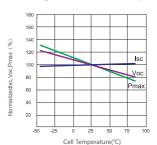
MECHANICAL DRAWINGS



I-V CURVES



Power voltage current curve at different temperature



MECHANICAL SPECIFICATION

Cell Type	Mono Crystalline 210x105mm
Number Of Cells	120 (6x20)
Dimensions(AxBxC)	2172x1303x35mm
Weights	36.0kg
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	4.0mm²,+300mm,-300mm Customized Length

PACKING CONFIGURATION

Container	40' HQ
Pieces Per Pallet	31
Pallets Per Container	17
Pieces Per Container	527

ELECTRICAL CHARACTERISTICS

Increased Snowload Acc.to lec 61215

Norminal Operating Cell Temperature(Noct)

Operating Temperature

Number Of Bypass Diodes

Temperature Coefficient Of Pmax

Temperature Coefficient Of Voc

Temperature Coefficient Of Isc

Module Type	590W	595W	600W	605W	610W
	STC NOCT	STC NOCT	STC NOCT	STC NOCT	STC NOCT
Maximum Power At STC(Pmax)	590W 447.2W	595W 451.0W	600W 454.8W	605W 458.6W	610W 462.3W
Short Circuit Current(Isc)	18.33A 14.81A	18.43A 14.89A	18.53A 14.97A	18.58A 15.01A	18.62A 15.04A
Open Circuit Voltage(Voc)	41.1V 38.5V	41.3V 38.7V	41.5V 38.9V	41.7V 39.1V	41.9V 39.2V
Maximum Power Current(Impp)	17.30A 14.04A	17.40A 14.12A	17.50A 14.19A	17.54A 14.23A	17.58A 14.26A
Maximum Power Voltage(Vmpp)	34.1V 31.9V	34.2V 32.0V	34.3V 32.0V	34.5V 32.2V	34.7V 32.4V
Module Efficiency	20.85%	21.02%	21.20%	21.38%	21.55%
Power Tolerance	0~+5W	0~+5W	0~+5W	0~+5W	0~+5W
Maximum System Voltage	VDC 1500V				
Maximum Series Fuse	35A	ELECTRICALC	HARACTERISTICS W	/ITH DIFFERENT REA	R SIDE POWER GAIN

(Reference to 600W Front)

Backside Power Gain	5%	10%	15%	20%	25%
Maximum Power At STC(Pmax)	630	660	690	720	750
Short Circuit Current(Isc)	19.28	20.20	21.12	21.91	22.82
Open Circuit Voltage(Voc)	41.7	41.7	41.7	50.0	50.0
Maximum Power Current(Impp)	18.16	19.02	19.88	20.63	21.49
Maximum Power Voltage(Vmpp)	34.70	34.70	34.7	34.9	34.9

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

5400Pa

-40~+85°C

3

45°C±2°C

-0.34%°C

-0.26%°C

0.04%℃



