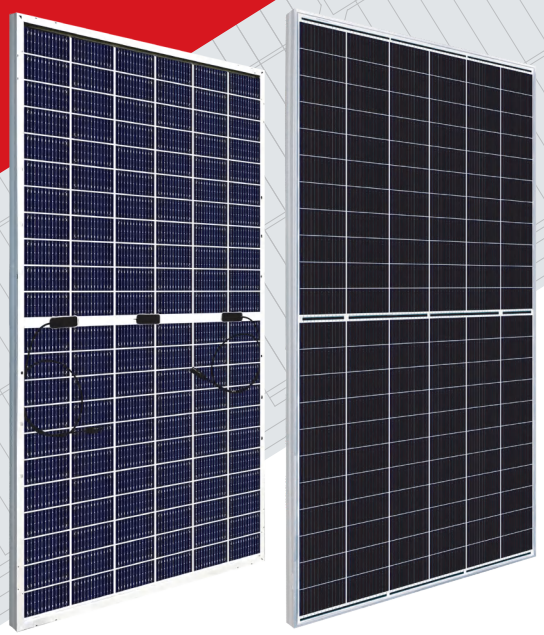
Mars Series

695W/700W/705W/710W

SUN66MD-H12JS

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;

Sunergy Advantages

Up to 90% Bifaciality
Natrual symmetrical bifacial structure bringing more energy yield from the backside

Better Temperature Coefficient
-0.26%/C Pmax temperature coefficient
More stable power generation performance and even better in hot climate

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

Higher fire rating
Fire rating up to Class A, reduce fire hazards;

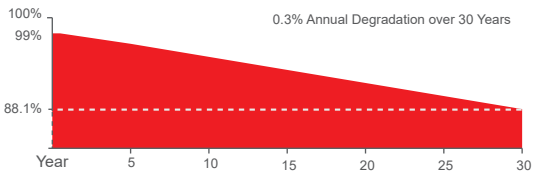
SUNERGY USA WORKS LLC

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

LINEAR PERFORMANCE WARRANTY

- 12 Years Manufacturing Warranty
- 12 Years 94.9% Power Output
- 30 Years 88.1% Power Output



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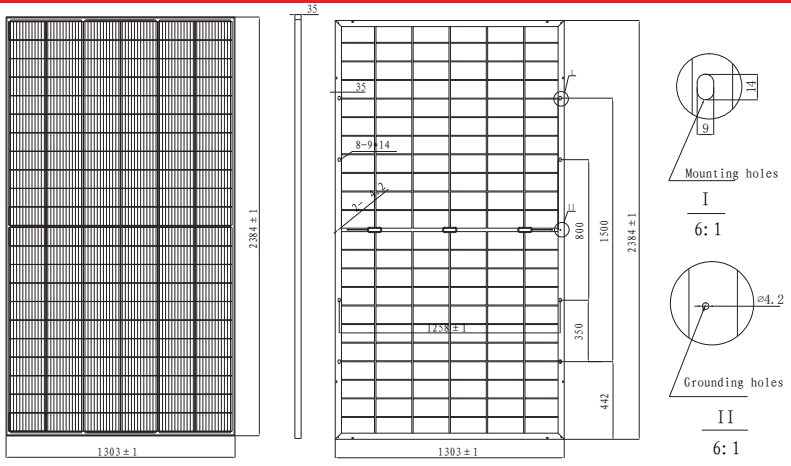
www.sunergyworks.com

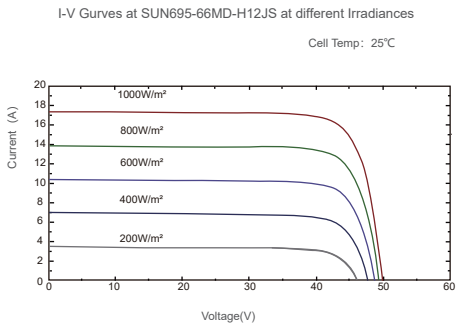
Mars Series SUN66MD-H12JS

MECHANICAL DRAWINGS

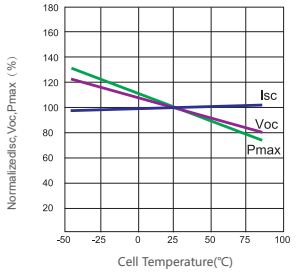


FRONT VIEW SIDE VIEW BACK VIEW

I-V CURVES



Power voltage current curve at different temperature



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

PACKING CONFIGURATION

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

ELECTRICAL CHARACTERISTICS

Module Type	695W		700W		705W		710W	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power At STC(Pmax)	695W	537.0W	700W	540.8W	705W	544.7W	710W	548.6W
Short Circuit Current(Isc)	17.31A	13.96A	17.35A	13.99A	17.39A	14.02A	17.43A	14.06A
Open Circuit Voltage(Voc)	49.8V	46.9V	50.0V	47.1V	50.2V	47.3V	50.4V	47.5V
Maximum Power Current(Impp)	16.28A	13.13A	16.32A	13.16A	16.36A	13.19A	16.40A	13.22A
Maximum Power Voltage(Vmpp)	42.7V	40.9V	42.9V	41.1V	43.1V	41.3V	43.3V	41.5V
Module Efficiency	22.37%		22.53%		22.70%		22.86%	
Power Tolerance	0~+5W		0~+5W		0~+5W		0~+5W	

Maximum System Voltage	VDC 1500V
Maximum Series Fuse	35A
Increased Snowload Acc.to Iec 61215	5400Pa
Operating Temperature	-40~+85℃
Number Of Bypass Diodes	3
Norminal Operating Cell Temperature(Noct)	45℃±2℃
Temperature Coefficient Of Pmax	-0.26%℃
Temperature Coefficient Of Voc	-0.24%℃
Temperature Coefficient Of Isc	0.04%℃

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(Impp)	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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