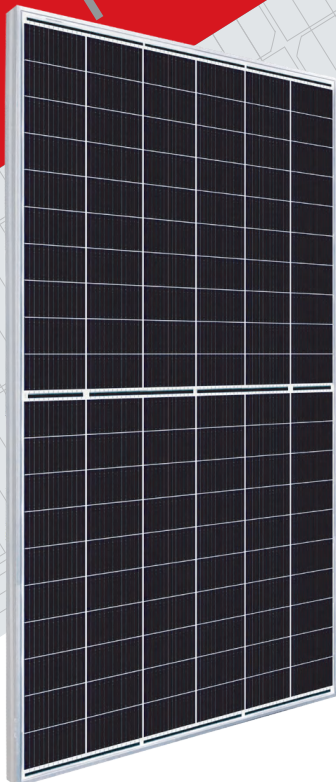


Mars Series

630W/635W/640W/645W

SUN60M-H12J

HJT MBB HALF-CELL MONO PV MODULE
210MM CELLS



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



Better Temperature Coefficient

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



Long-term weather resistance

Zero LID, zero PID



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

SUNERGY USA WORKS LLC

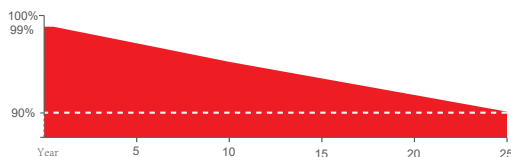
Founded in 2008, Sunergy is a manufacturer of high-performance photovoltaic products. With 12 manufacturing bases and more than 20 branches around the world, the company's business covers modules, photovoltaic power stations and EPC. Sunergy products are available in over 120 countries and regions and 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
- 25 Years 90% Power Output

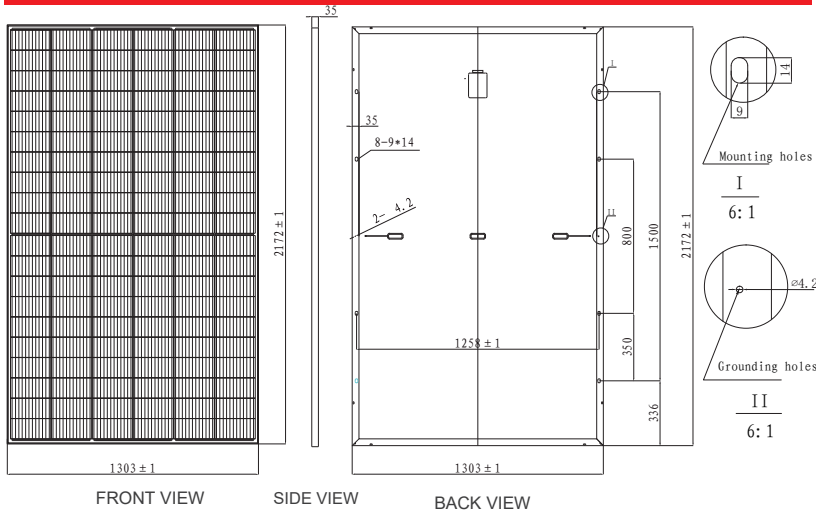


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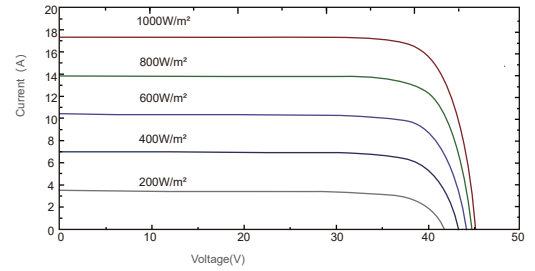
Mars Series SUN 60M-H12J

MECHANICAL DRAWINGS

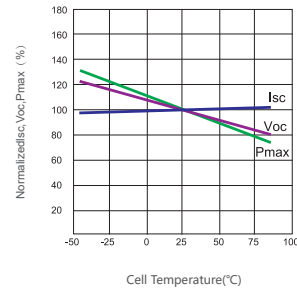


I-V CURVES

I-V Curves at SUN630-60M-H12J at different Irradiances
Cell Temp: 25°C



Power voltage current curve at different temperature



MECHANICAL SPECIFICATION

Cell Type	HJT 210x105mm
Number Of Cells	120 (6x20)
Dimensions(AxBxC)	2172x1303x35mm
Weights	31.0kg
Glass	3.2mm 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

PACKING CONFIGURATION

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

ELECTRICAL CHARACTERISTICS

Module Type	630W		635W		640W		645W	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power At STC(Pmax)	630W	486.8W	635W	490.6W	640W	494.5W	645W	498.3W
Short Circuit Current(Isc)	17.31A	13.96A	17.35A	13.99A	17.40A	14.03A	17.44A	14.06A
Open Circuit Voltage(Voc)	45.1V	42.5V	45.3V	42.7V	45.5V	42.9V	45.7V	43.1V
Maximum Power Current(Imp)	16.28A	13.13A	16.32A	13.16A	16.37A	13.20A	16.41A	13.23A
Maximum Power Voltage(Vmpp)	38.7V	37.1V	38.9V	37.3V	39.1V	37.5V	39.3V	37.7V
Module Efficiency	22.26%		22.44%		22.61%		22.79%	
Power Tolerance	0~+5W		0~+5W		0~+5W		0~+5W	
Maximum System Voltage	VDC 1500V							
Maximum Series Fuse	30A							
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	-0.26%/°C							
Temperature Coefficient Of Voc	-0.24%/°C							
Temperature Coefficient Of Isc	0.04%/°C							

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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