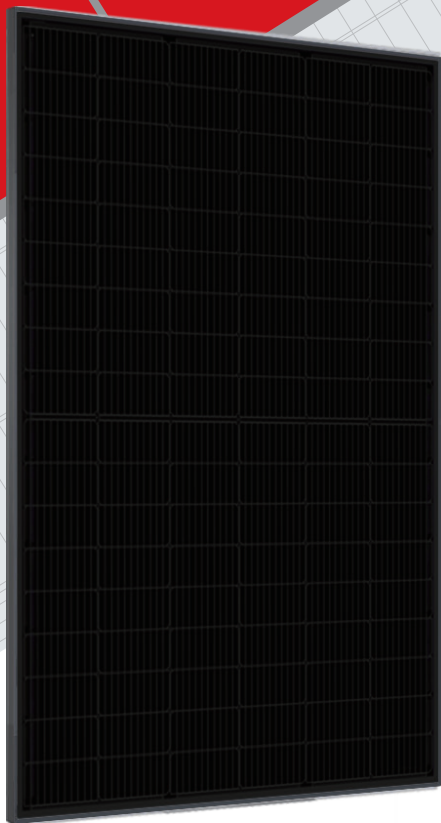


Mars Series

395W/400W/405W/410W

SUN 54M-H8(BK)

MBB HALF-CELL MONO PV MODULE
182MM 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;

KEY SALIENT FEATURES



High output power



Better power generation under shadows



Strong anti-hot spot ability



Strong mechanical load capacity



Super strong frame



1500V system voltage

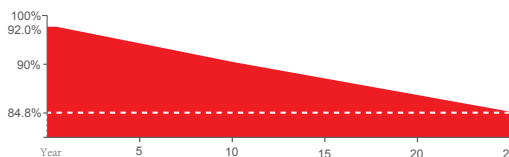
SUNERGY USA WORKS LLC

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.

LINEAR PERFORMANCE WARRANTY

- 12 Years Manufacturing Warranty
- 12 Years 92.0% Power Output
- 25 Years 84.8% Power Output

QUALIFICATIONS AND CERTIFICATES

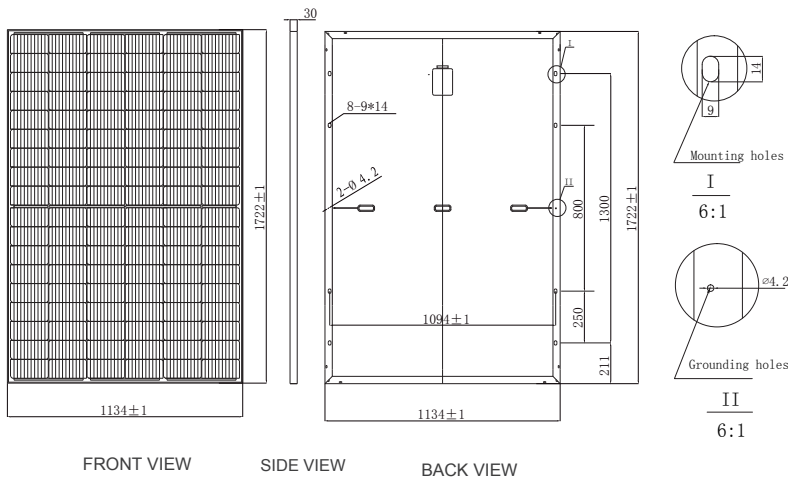


SUNERGY USA WORKS LLC
www.sunergyworks.com



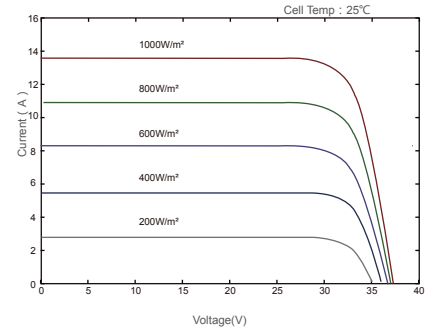
Mars Series SUN 54M-H8(BK)

MECHANICAL DRAWINGS

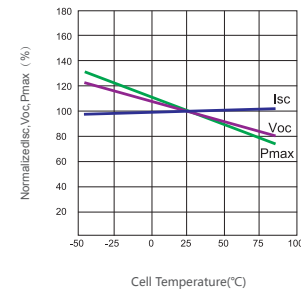


I-V CURVES

I-V Curves at SUN405-54M-H8 at different Irradiances



Power voltage current curve at different temperature



MECHANICAL SPECIFICATION

Cell Type	Mono Crystalline 182x91mm
Number Of Cells	108 (6x18)
Dimensions(AxBxC)	1722x1134x30mm
Weights	21.5kg
Glass	3.2mm Tempered Low Iron Glass
Aluminium Frame	Anodised Aluminium
Junction Box	Split Junction Box (IP68 ,three diode)
Connector	Mc4 Compatible
Output Cables	4.0mm²,+300mm,-300mm Customized Length

PACKING CONFIGURATION

Container	40' HQ
Pieces Per Pallet	36
Pallets Per Container	26
Pieces Per Container	936

ELECTRICAL CHARACTERISTICS

Module Type	395W		400W		405W		410W	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power At STC(Pmax)	395W	297.6W	400W	301.3W	405W	305.1W	410W	308.9W
Short Circuit Current(Isc)	13.62A	11.00A	13.70A	11.07A	13.77A	11.13A	13.85A	11.19A
Open Circuit Voltage(Voc)	36.9V	34.5V	37.1V	34.7V	37.4V	35.0V	37.6V	35.1V
Maximum Power Current(Imp)	12.79A	10.43A	12.86A	10.49A	12.94A	10.55A	13.02A	10.61A
Maximum Power Voltage(Vmpp)	30.9V	28.5V	31.1V	28.7V	31.3V	28.9V	31.5V	29.1V
Module Efficiency	20.23%		20.48%		20.74%		21.00%	
Power Tolerance	0~+5W		0~+5W		0~+5W		0~+5W	
Maximum System Voltage	VDC 1500V							
Maximum Series Fuse	25A							
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	-0.35%/°C							
Temperature Coefficient Of Voc	-0.27%/°C							
Temperature Coefficient Of Isc	0.05%/°C							

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

