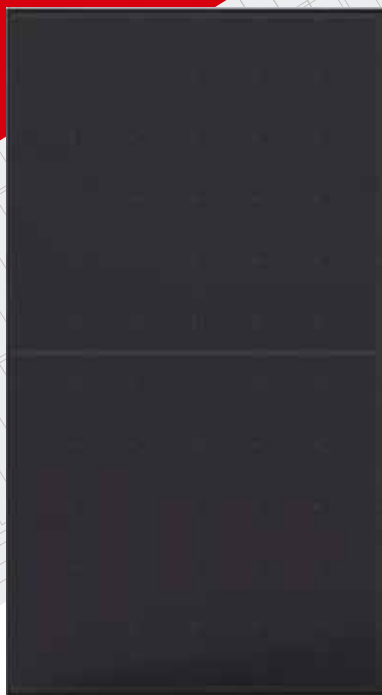


Mars Series

415W/420W/425W

SUN 66M-H6I(BK)








IBC HALF-CELL MONO
PV MODULE



COMPREHENSIVE CERTIFICATES

IEC61215 / IEC61730 / IEC61701 / IEC62716 / IEC62804
ISO 9001:2015 Quality Management Systems
ISO 14001:2015 Environment Management Systems
ISO 45001:2018 Occupational Health
and Safety Management Systems

KEY SALIENT FEATURES

-  No busbar on front side, elegant appearance
-  N-type solar cell has no LID naturally
-  Better weak illumination response
-  Higher module power decrease system LCOE
-  Better Temperature Coefficient
-  Current grading reduces mismatch
-  Passed the strict PID test

SUNERGY USA WORKS LLC

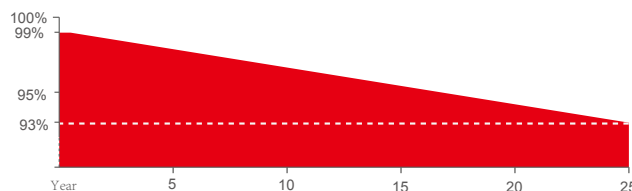
Founded in 2008, Sunergy is a manufacturer of high-performance photovoltaic products. With 12 manufacturing bases and more than 20 branches around the world, the company's business covers modules, photovoltaic power stations and EPC. Sunergy products are available in over 120 countries and regions and 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 96% Power Output
- 25 Years 93% Power Output

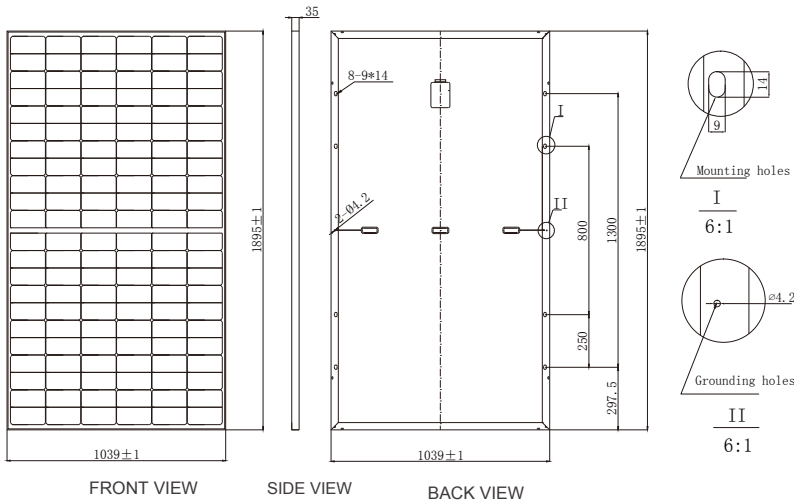


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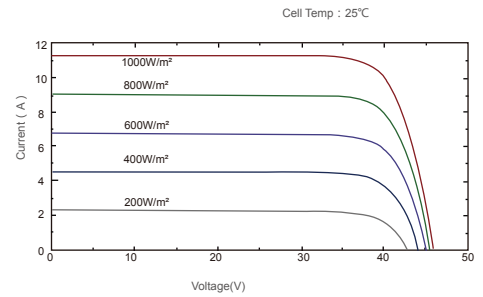
Mars Series SUN 66M-H6I(BK)

MECHANICAL DRAWINGS

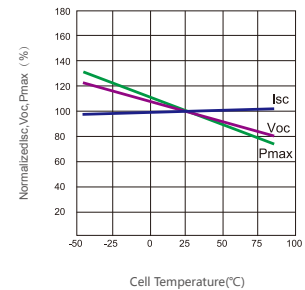


I-V CURVES

I-V Curves at SUN420-66M-H6I(BK) at different Irradiances



Power voltage current curve at different temperature



MECHANICAL SPECIFICATION

Cell Type	IBC 166x83mm(Half-cell)
Number Of Cells	132 (6x22)
Dimensions(AxBxC)	1895x1039x35mm
Weights	21.0±3%kg
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	31
Pallets Per Container	24
Pieces Per Container	768

ELECTRICAL CHARACTERISTICS

Module Type	415W		420W		425W	
	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power At STC(Pmax)	415W	312.7W	420W	316.5W	425W	320.3W
Short Circuit Current(Isc)	11.56A	9.33A	11.66A	9.41A	11.76A	9.49A
Open Circuit Voltage(Voc)	45.8V	42.9V	45.9V	43.0V	46.0V	43.1V
Maximum Power Current(Imp)	10.76A	8.85A	10.83A	8.92A	10.90A	9.00A
Maximum Power Voltage(Vmpp)	38.6V	35.4V	38.8V	35.5V	39.0V	35.6V
Module Efficiency	21.08%		21.33%		21.59%	
Power Tolerance	0~+5W		0~+5W		0~+5W	
Maximum System Voltage	VDC 1500V					
Maximum Series Fuse	20A					
Increased Snowload Acc.to Iec 61215	5400Pa					
Operating Temperature	-40~+85°C					
Number Of Bypass Diodes	3					
Norminal Operating Cell Temperature(Noct)	42°C±2°C					
Temperature Coefficient Of Pmax	-0.290%/°C					
Temperature Coefficient Of Voc	-0.246%/°C					
Temperature Coefficient Of Isc	+0.046%/°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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