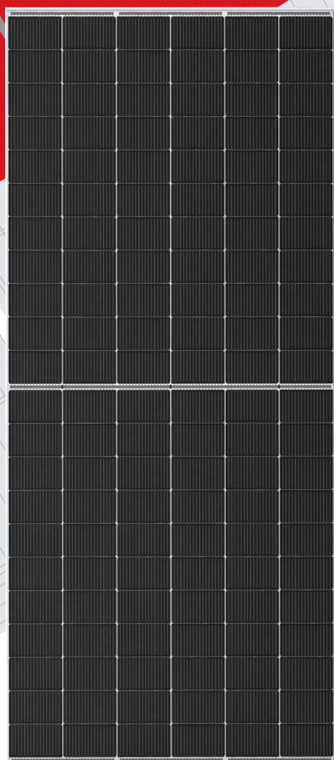


Mars Series

605W/610W/615W/620W/625W

SUN 66MD-H12RS

N TYPE TOPCON BIFACIAL MODULE



COMPREHENSIVE CERTIFICATES

IEC61215 / IEC61730 / IEC61701 / IEC62716 / IEC62804
ISO 9001: 2015 Quality management systems;
ISO 14001: 2015 Environmental management systems;
ISO 45001: 2018 Occupational health and safety management systems;

Sunergy Advantages



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 utilization of container space

Higher container space utilization significantly reduce transportation costs



Better Temperature Coefficient

-0.30%/°C Pmax temperature coefficient
More stable power generation performance and even better in hot climate



Higher fire rating

Fire rating up to Class A, reduce fire hazards;

SUNERGY USA WORKS LLC

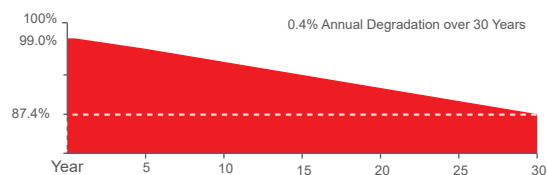
Founded in 2008, Sunergy is a manufacturer of high-performance photovoltaic products. With 12 manufacturing bases and more than 20 branches around the world, the company's business covers modules, photovoltaic power stations and EPC. Sunergy products are available in over 120 countries and regions and 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 94.6% Power Output
- 30 Years 87.4% Power Output

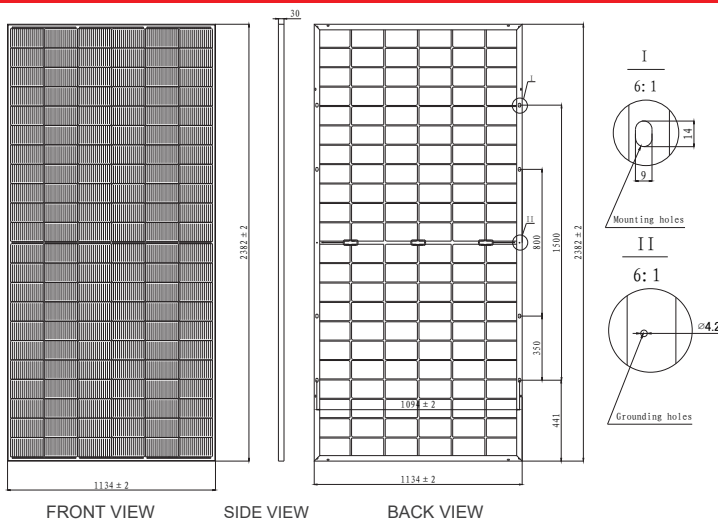


SUNERGY USA WORKS LLC
www.sunergyworks.com

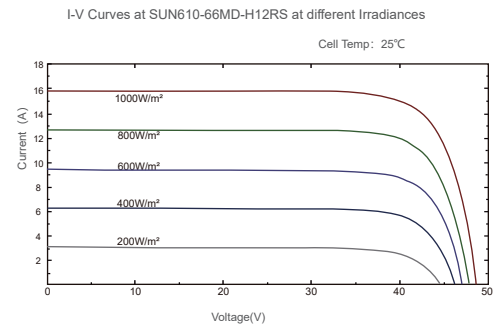


Mars Series SUN 66MD-H12RS

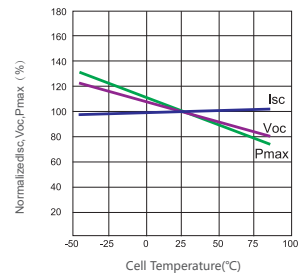
MECHANICAL DRAWINGS



I-V CURVES



Power voltage current curve at different temperature



MECHANICAL SPECIFICATION

Cell Type	N-Type Mono Crystalline 182x105mm
Number Of Cells	132 (6x22)
Dimensions(AxBxC)	2382x1134x30mm
Weights	33.0kg
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	36
Pallets Per Container	20
Pieces Per Container	720

ELECTRICAL CHARACTERISTICS

Module Type	605W		610W		615W		620W		625W	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power At STC(Pmax)	605W	460.6W	610W	464.5W	615W	468.3W	620W	472.1W	625W	475.9W
Short Circuit Current(Isc)	15.86A	12.85A	15.92A	12.90A	15.98A	12.95A	16.03A	12.99A	16.09A	13.04A
Open Circuit Voltage(Voc)	48.15V	46.66V	48.35V	46.85V	48.55V	47.04V	48.75V	47.24V	48.95V	47.43V
Maximum Power Current(Imp)	14.95A	12.15A	15.01A	12.19A	15.07A	12.24A	15.12A	12.28A	15.18A	12.32A
Maximum Power Voltage(Vmpp)	40.46V	37.93V	40.64V	38.10V	40.82V	38.26V	41.01V	38.45V	41.18V	38.62V
Module Efficiency	22.4%		22.6%		22.8%		23.0%		23.1%	
Power Tolerance	0~+5W		0~+5W		0~+5W		0~+5W		0~+5W	

ELECTRICAL CHARACTERISTICS WITH DIFFERENT REAR SIDE POWER GAIN

(Reference to 610W Front)

Backside Power Gain	10%	15%	20%	25%	30%
Maximum Power At STC(Pmax)	671.0	701.5	732.0	762.5	793.0
Short Circuit Current(Isc)	17.50	18.23	18.95	19.67	20.38
Open Circuit Voltage(Voc)	48.36	48.54	48.72	48.90	49.08
Maximum Power Current(Imp)	16.51	17.19	17.88	18.55	19.22
Maximum Power Voltage(Vmpp)	40.65	40.80	40.95	41.10	41.25

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

