

Mars Series

445W/450W/455W/460W

SUN 72M-H6

MBB HALF-CELL MONO PV MODULE



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



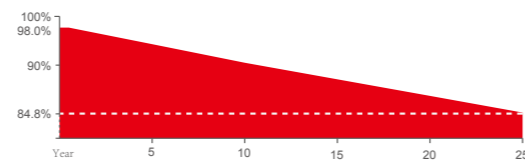
Super strong frame



1500V system voltage

LINEAR PERFORMANCE WARRANTY

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



SUNERGY USA WORKS LLC

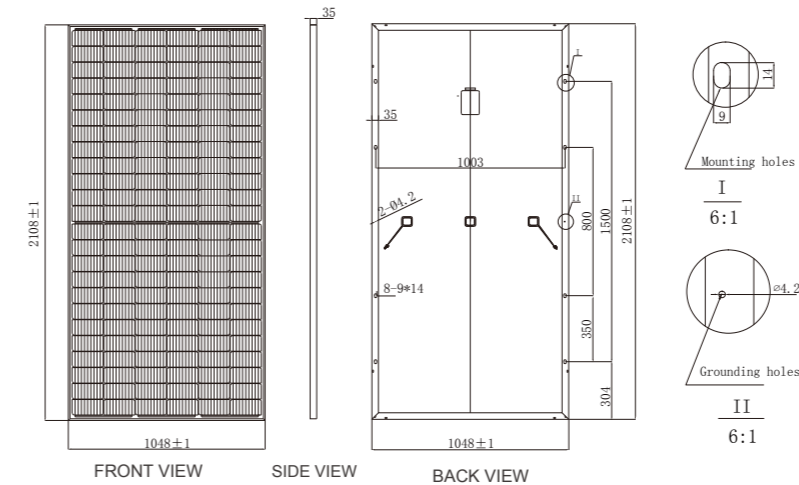
Founded in 2008, Sunergy is a manufacturer of high-performance photovoltaic products. With 12 manufacturing bases and more than 20 branches around the world, the company's business covers modules, photovoltaic power stations and EPC. Sunergy products are available in over 120 countries and regions and are used extensively in ground-mounted power plants, commercial & industrial rooftop PV systems and residential rooftop PV systems.

QUALIFICATIONS AND CERTIFICATES

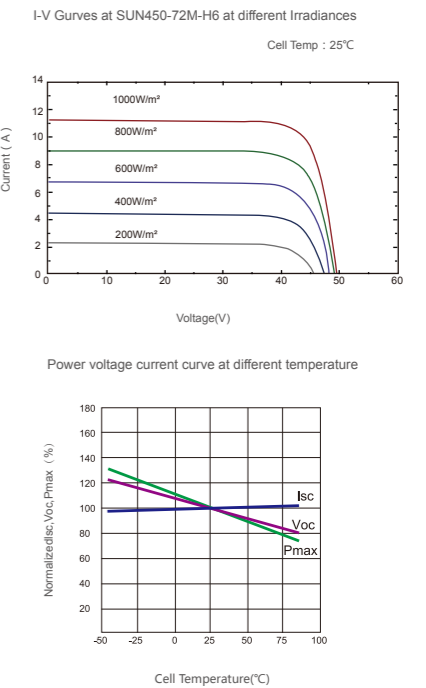


Mars Series SUN 72M-H6

MECHANICAL DRAWINGS



I-V CURVES



MECHANICAL SPECIFICATION

| | |
|-------------------|--|
| Cell Type | Mono Crystalline 166x83mm |
| Number Of Cells | 144 (6x24) |
| Dimensions(AxBxC) | 2108x1048x35mm |
| Weights | 24.5kg |
| 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 |

ELECTRICAL CHARACTERISTICS

| Module Type | 445W | | 450W | | 455W | | 460W | |
|---|-----------|--------|--------|--------|--------|--------|--------|--------|
| | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT |
| Maximum Power At STC(Pmax) | 445W | 334.5W | 450W | 338.3W | 455W | 342.0W | 460W | 345.8W |
| Short Circuit Current(Isc) | 11.29A | 9.12A | 11.36A | 9.18A | 11.43A | 9.24A | 11.50A | 9.29A |
| Open Circuit Voltage(Voc) | 49.7V | 46.3V | 50.0V | 46.6V | 50.3V | 46.9V | 50.6V | 47.2V |
| Maximum Power Current(Impp) | 10.80A | 8.65A | 10.87A | 8.70A | 10.94A | 8.75A | 11.01A | 8.71A |
| Maximum Power Voltage(Vmpp) | 41.2V | 38.7V | 41.4V | 38.9V | 41.6V | 39.1V | 41.8V | 39.3V |
| Module Efficiency | 20.14% | | 20.37% | | 20.60% | | 20.82% | |
| Power Tolerance | 0~+5W | | 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) | 45°C±2°C | | | | | | | |
| Temperature Coefficient Of Pmax | -0.36%/°C | | | | | | | |
| Temperature Coefficient Of Voc | -0.29%/°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.

PACKING CONFIGURATION

| | |
|-----------------------|--------|
| Container | 40' HQ |
| Pieces Per Pallet | 31 |
| Pallets Per Container | 22 |
| Pieces Per Container | 704 |



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