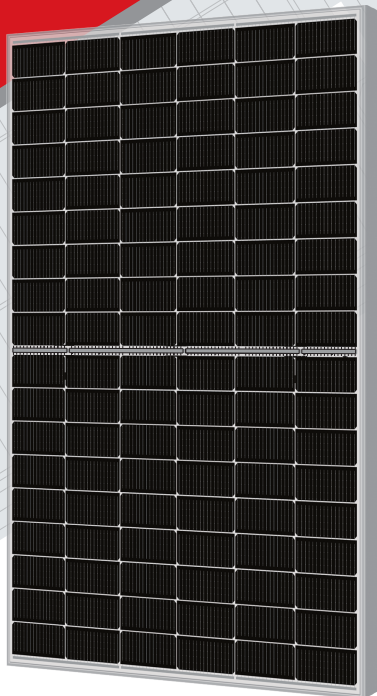


Mars Series

420W/425W/430W/435W

SUN 54M-H8N

N-Type TOPCon 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

SUNERGY USA WORKS LLC

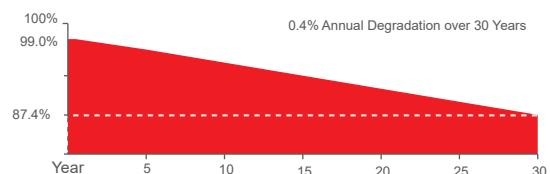
Founded in 2008, Sunergy is a manufacturer of high-performance photovoltaic products. With 12 manufacturing bases and more than 20 branches around the world, the company's business covers modules, photovoltaic power stations and EPC. Sunergy products are available in over 120 countries and regions and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

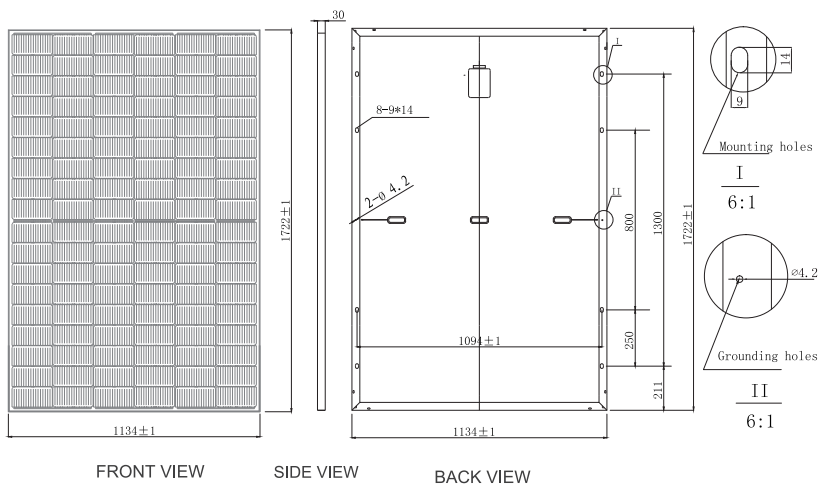


SUNERGY USA WORKS LLC
www.sunergyworks.com

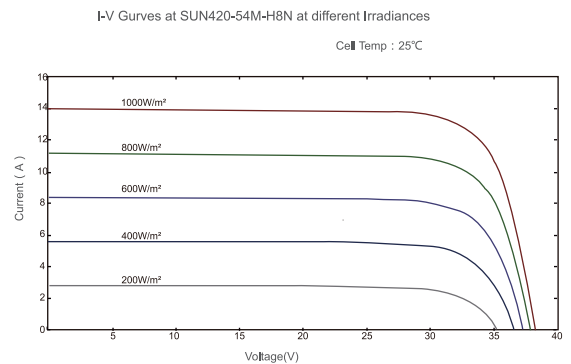


Mars Series SUN 54M-H8N

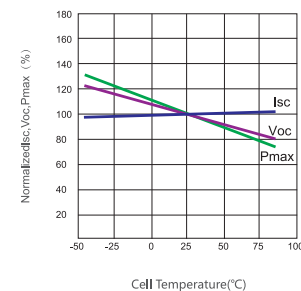
MECHANICAL DRAWINGS



I-V CURVES



Power voltage current curve at different temperature



MECHANICAL SPECIFICATION

| | |
|-------------------|--|
| Cell Type | N-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 | 420W | | 425W | | 430W | | 435W | |
|---|-----------|--------|--------|--------|--------|--------|--------|--------|
| | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT |
| Maximum Power At STC(Pmax) | 420W | 317.0W | 425W | 320.8W | 430W | 324.6W | 435W | 328.3W |
| Short Circuit Current(Isc) | 14.02A | 11.39A | 14.12A | 11.47A | 14.21A | 11.54A | 14.32A | 11.63A |
| Open Circuit Voltage(Voc) | 38.26V | 36.24V | 38.41V | 36.38V | 38.56V | 36.52V | 38.71V | 36.66V |
| Maximum Power Current(Imp) | 13.26A | 10.76A | 13.35A | 10.84A | 13.44A | 10.91A | 13.54A | 10.99A |
| Maximum Power Voltage(Vmpp) | 31.69V | 29.45V | 31.84V | 29.59V | 31.99V | 29.75V | 32.14V | 29.87V |
| Module Efficiency | 21.5% | | 21.8% | | 22.00% | | 22.3% | |
| 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 | -0.30%/°C | | | | | | | |
| Temperature Coefficient Of Voc | -0.25%/°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.

