



GO WITH SUNSHINE

晟 高 新 能 源

# Mars-G3MINI

High Efficiency Half-Cell Mono PERC Module

## 410W



### PRODUCTS FEATURES



Half-cut cell technology  
New circuit design, lower internal current,  
lower Rs loss



Lower the risk of hot spot  
Special design with lower hot spot temperature

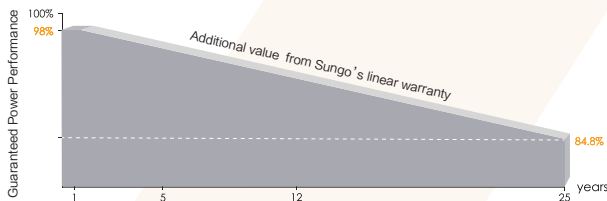


100% triple EL test enabling remarkable  
reduction of hidden crack rate of modules



Lower LCOE  
Higher power generation, Lower LCOE

### LINEAR PERFORMANCE WARRANTY



**25 YEARS** Linear power guarantee

**0.55%** Annual Degradation Over 25 years

### COMPREHENSIVE CERTIFICATES



ISO9001: Quality Management System  
ISO14001: Environment Management System  
ISO45001: Occupational Health and Safety  
Management System

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## ELECTRIC CHARACTERISTICS

| Type                              | SG-MH54L-410 | SG-MH54L-405 | SG-MH54L-400 | SG-MH54L-395 |
|-----------------------------------|--------------|--------------|--------------|--------------|
| Maximum Power (Pmax/W)            | 410          | 405          | 400          | 395          |
| Open Circuit Voltage (Voc/V)      | 37.68        | 37.33        | 37.18        | 36.93        |
| Short Circuit Current (Isc/A)     | 13.59        | 13.44        | 13.39        | 13.24        |
| Voltage at Maximum Power (Vmpp/V) | 31.4         | 31.23        | 31.11        | 31.03        |
| Current at Maximum Power (Impp/A) | 13.06        | 12.97        | 12.86        | 12.73        |
| Module Efficiency ( $\eta\%$ )    | 21.0         | 20.7         | 20.5         | 20.2         |

## MECHANICAL CHARACTERISTICS

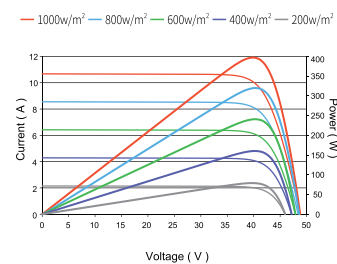
|                    |  |
|--------------------|--|
| Cell type          | PERC Monocrystalline 182×91 mm                                 |
| Number of cells    | 108 cells  |
| Dimensions         | 1722×1134×35mm   |
| Weight             | 21 kg  |
| Cables             | 4.0 mm <sup>2</sup> , wire length: 300 mm or Customized Length |
| Junction Box       | IP68, 3 diodes   |
| Mechanical Loading | 5400 Pa  |
| Glass              | Tempered, 3.2 mm AR, High transmittance, Low iron              |
| Frame              | Anodized aluminum alloy  |
| Connectors         | MC4 Compatibility  |
| Packing            | 31pcs/Pallet   |

## Temperature Ratings

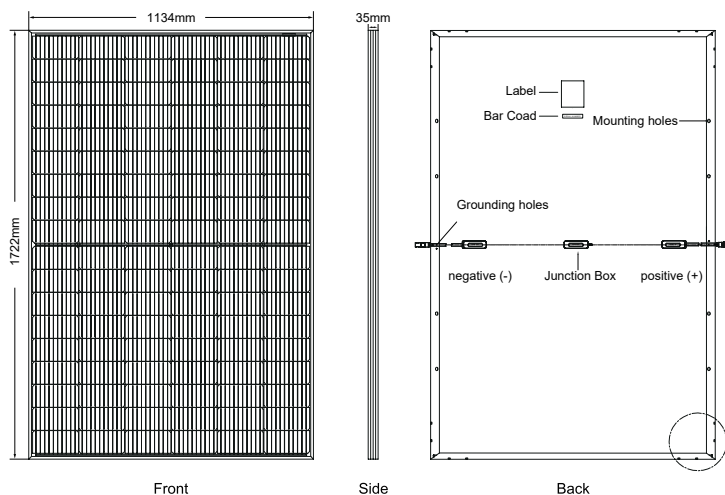
|  |            |
|--|------------|
| Temperature Coefficient of Pmax            | -0.35%/°C  |
| Temperature Coefficient of Voc             | -0.27%/°C  |
| Temperature Coefficient of Isc             | +0.05%/°C  |
| Working Temperature                        | -40°C~85°C |
| Normal Module Operating Temperature (NMOT) | 45±2°C     |

## I-V Curve

Current-Voltage & Power-Voltage Curves



## Design(mm)



Temperature Dependence of Isc, Voc, Pmax

