

# Mars-G3MINI

High Efficiency Half-Cell Mono PERC Module

## 395-410W



### PRODUCTS FEATURES



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



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

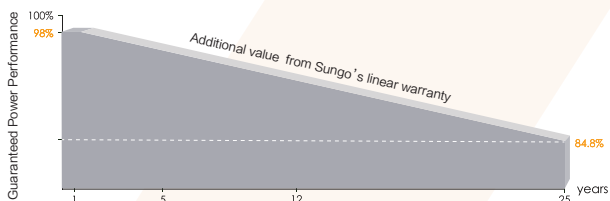


100% triple EL test enabling remarkable  
reduction of hidden crack rate of modules



Lower LCOE  
Higher power generation, Lower LCOE

### LINEAR PERFORMANCE WARRANTY



**15 YEARS** Product quality & process guarantee

**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

## ELECTRIC CHARACTERISTICS

Type	SG-MH54L-395	SG-MH54L-400	SG-MH54L-405	SG-MH54L-410
Maximum Power (Pmax/W)	395	400	405	410
Open Circuit Voltage (Voc/V)	36.93	37.18	37.33	37.86
Short Circuit Current (Isc/A)	13.24	13.39	13.44	13.59
Voltage at Maximum Power (Vmpp/V)	31.03	31.11	31.23	31.4
Current at Maximum Power (Impp/A)	12.73	12.86	12.97	13.06
Module Efficiency ( $\eta\%$ )	20.2	20.5	20.7	21.0

## MECHANICAL CHARACTERISTICS

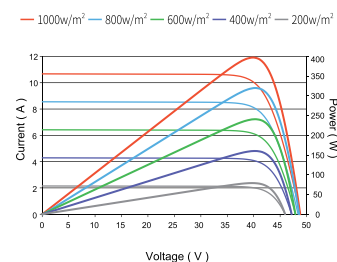
Cell type	PERC Monocrystalline 182×91 mm
Number of cells	108 cells
Dimensions	1722×1134×35mm
Weight	21 kg
Cables	4.0 mm <sup>2</sup> , wire length: 300 mm or Customized Length
Junction Box	IP68, 3 diodes
Mechanical Loading	5400 Pa
Glass	Tempered, 3.2 mm AR, High transmittance, Low iron
Frame	Anodized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

## Temperature Ratings

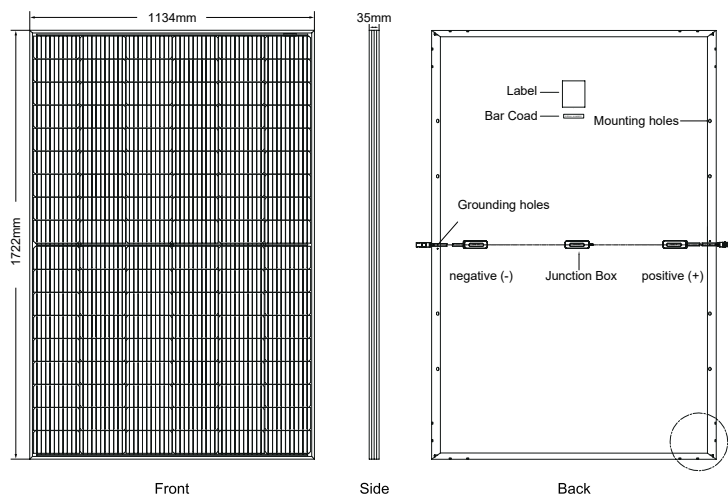
Temperature Coefficient of Pmax	-0.35%/°C
Temperature Coefficient of Voc	-0.27%/°C
Temperature Coefficient of Isc	+0.05%/°C
Working Temperature	-40°C~85°C
Normal Module Operating Temperature (NMOT)	45±2°C

## I-V Curve

Current-Voltage & Power-Voltage Curves



## Design(mm)



Temperature Dependence of Isc, Voc, Pmax

