

Mars-G3Series

High Efficiency Half-Cell Mono PERC Module

480-500W



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

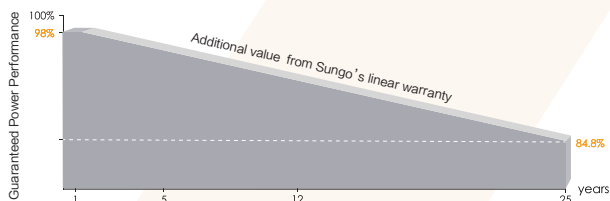


100% triple EL test enabling remarkable
reduction of hidden crack rate of modules



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-MH66L-480	SG-MH66L-485	SG-MH66L-490	SG-MH66L-495	SG-MH66L-500
Maximum Power (P _{max} /W)	480	485	490	495	500
Open Circuit Voltage (V _{oc} /V)	45.08	45.16	45.25	45.34	45.43
Short Circuit Current (I _{sc} /A)	13.58	13.64	13.71	13.78	13.85
Voltage at Maximum Power (V _{mpp} /V)	37.77	37.92	38.08	38.23	38.38
Current at Maximum Power (I _{mp} /A)	12.71	12.79	12.87	12.95	13.03
Module Efficiency (η%)	20.2	20.4	20.6	20.8	21.1

MECHANICAL CHARACTERISTICS

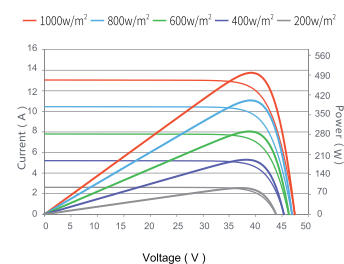
Cell type	PERC Monocrystalline 182×91 mm
Number of cells	132 cells
Dimensions	2094×1134×35mm
Weight	26.3 kg
Cables	4.0 mm ² , wire length: 300 mm or Customized Length
Junction Box	IP68
Mechanical Loading	5400 Pa
Glass	Tempered, 3.2 mm AR, High transmittance, Low iron
Frame	Anodized aluminum alloy
Connectors	MC4 Compatibility
Packing	31pcs/Pallet

Temperature Ratings

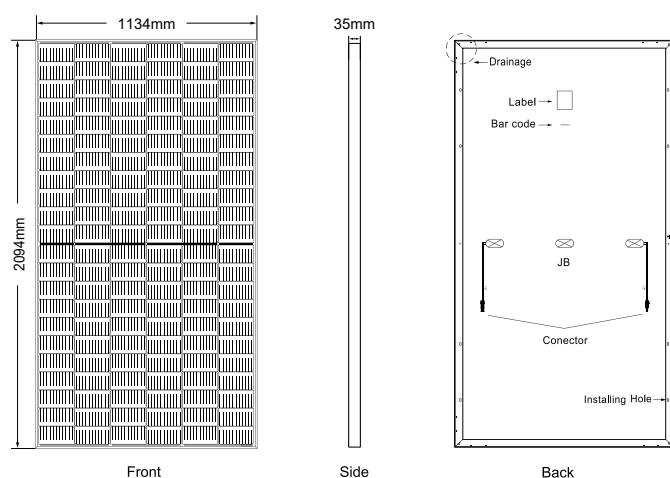
Temperature Coefficient of P _{max}	-0.35%/°C
Temperature Coefficient of V _{oc}	-0.28%/°C
Temperature Coefficient of I _{sc}	+0.045%/°C
Working Temperature	-40°C~85°C
Normal Module Operating Temperature (NMOT)	45±2°C

I-V Curve

Current-Voltage & Power-Voltage Curves



Design(mm)



Temperature Dependence of I_{sc}, V_{oc}, P_{max}

