

Mars-G3Series

High Efficiency Half-Cell Mono PERC Module

435-455W



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

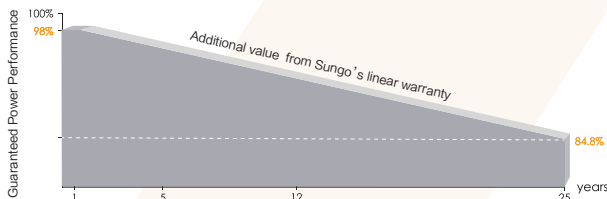


100% triple EL test enabling remarkable
reduction of hidden crack rate of modules



Lower LCOE
Higher power generation, Lower LCOE

LINEAR PERFORMANCE WARRANTY



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-MH60L-435	SG-MH60L-440	SG-MH60L-445	SG-MH60L-450	SG-MH60L-455
Maximum Power (Pmax/W)	435	440	445	450	455
Open Circuit Voltage (Voc/V)	40.99	41.18	41.27	41.46	41.65
Short Circuit Current (Isc/A)	13.32	13.37	13.42	13.47	13.54
Voltage at Maximum Power (Vmpp/V)	34.23	34.39	34.46	34.62	34.78
Current at Maximum Power (Impp/A)	12.71	12.8	12.92	13.01	13.09
Module Efficiency ($\eta\%$)	20.2	20.4	20.6	20.9	21.1

MECHANICAL CHARACTERISTICS

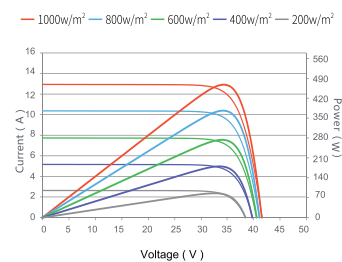
Cell type	PERC Monocrystalline 182×91 mm
Number of cells	120 cells
Dimensions	1903×1134×35mm
Weight	24 kg
Cables	4.0 mm ² , wire length: 300 mm or Customized Length
Junction Box	IP68
Mechanical Loading	5400 Pa
Glass	Tempered, 3.2 mm AR, High transmittance, Low iron
Frame	Anodized aluminum alloy
Connectors	MC4 Compatibility
Packing	31pcs/Pallet

Temperature Ratings

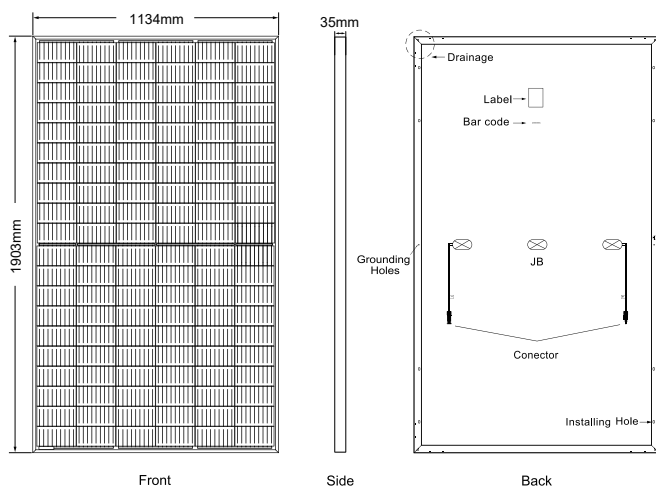
Temperature Coefficient of Pmax	-0.35%/°C
Temperature Coefficient of Voc	-0.28%/°C
Temperature Coefficient of Isc	+0.045%/°C
Working Temperature	-40°C~85°C
Normal Module Operating Temperature (NMOT)	45±2°C

I-V Curve

Current-Voltage & Power-Voltage Curves



Design(mm)



Temperature Dependence of Isc, Voc, Pmax

