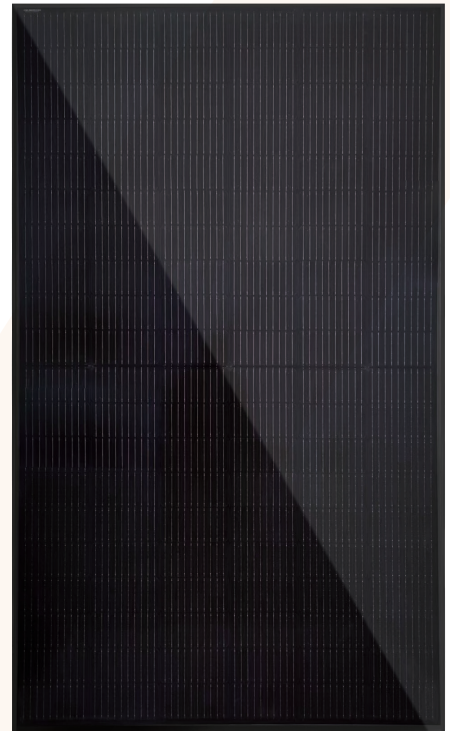


Mars-G3Series

High Efficiency Half-Cell Mono PERC PV Module

435-450W



Products Features



Half-cut Cell Technology

New circuit design, lower internal current, lower RS loss



100% Triple EL Test

Enabling remarkable reduction of hidden crack rate of modules



Lower the risk of hot spot

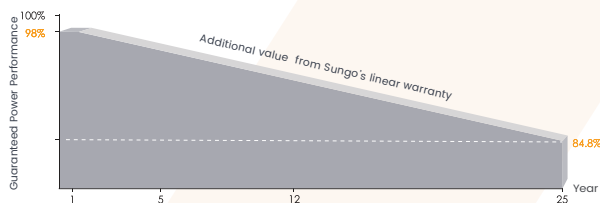
Innovative design with lower hot spot temperature



Lower LCOE

Higher power generation, Lower LCOE

Linear Performance Warranty



12 Years Product Warranty

25 Years Linear Power Warranty

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
Maximum Power (P _{max} /W)	435	440	445	450
Open Circuit Voltage (V _{oc} /V)	40.99	41.18	41.27	41.46
Short Circuit Current (I _{sc} /A)	13.32	13.37	13.42	13.47
Voltage at Maximum Power (V _{mp} /V)	34.23	34.39	34.46	34.62
Current at Maximum Power (I _{mp} /A)	12.71	12.8	12.92	13.01
Module Efficiency (η%)	20.2	20.4	20.6	20.9

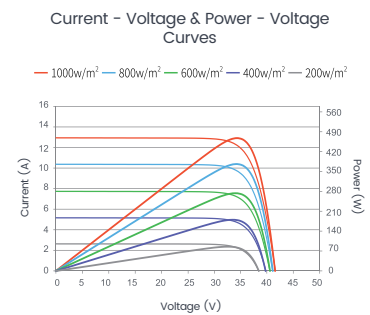
Mechanical Characteristics

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/pallets

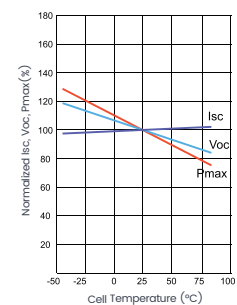
Temperature Ratings

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



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



Design

