

# Mars-G3Series

High Efficiency Half-Cell Mono PERC Module

## 520-550W



### 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

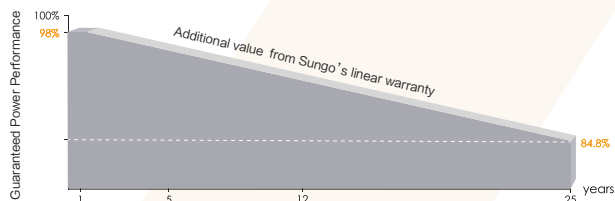


100% triple EL test enabling remarkable  
reduction of hidden crack rate of modules



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-MH72L-520D	SG-MH72L-525D	SG-MH72L-530D	SG-MH72L-535D	SG-MH72L-540D	SG-MH72L-545D	SG-MH72L-550D
Maximum Power (Pmax/W)	520	525	530	535	540	545	550
Open Circuit Voltage (Voc/V)	49.1	49.18	49.26	49.34	49.42	49.51	49.6
Short Circuit Current (Isc/A)	13.57	13.64	13.71	13.79	13.85	13.94	14.04
Voltage at Maximum Power (Vmp/V)	40.92	41.15	41.31	41.44	41.64	41.86	41.96
Current at Maximum Power (Imp/A)	12.71	12.76	12.83	12.91	12.97	13.02	13.11
Module Efficiency ( $\eta\%$ )	20.1	20.3	20.5	20.7	20.9	21.1	21.3

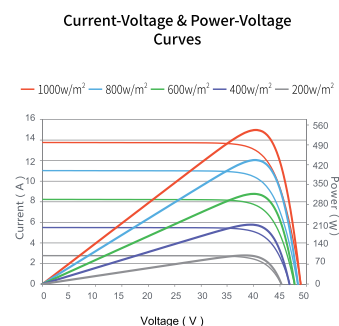
## MECHANICAL CHARACTERISTICS

Cell type	PERC Monocrystalline 182×91 mm
Number of cells	144 cells
Dimensions	2285×1134×35mm
Weight	35 kg
Cables	4.0 mm <sup>2</sup> , wire length: 300mm
Junction Box	IP68
Mechanical Loading	5400 Pa
Glass	Tempered, 2.0mm AR, High transmittance, Low iron
Frame	Anodized aluminum alloy
Connectors	MC4 Compatibility
Packing	31pcs/Pallet

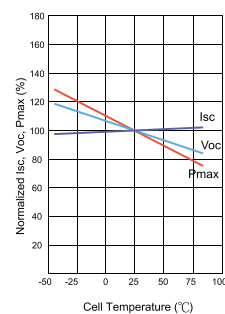
## Temperature Ratings

Temperature Coefficient of Pmax	-0.35%/°C
Temperature Coefficient of Voc	-0.27%/°C
Temperature Coefficient of Isc	+0.048%/°C
Working Temperature	-40°C~85°C
Normal Module Operating Temperature (NMOT)	45±2°C

## I-V Curve



## Temperature Dependence of Isc, Voc, Pmax



## Design(mm)

