



# Mars-G5Series

High Efficiency Half-Cell Mono PERC Module

## 495-515W

### 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

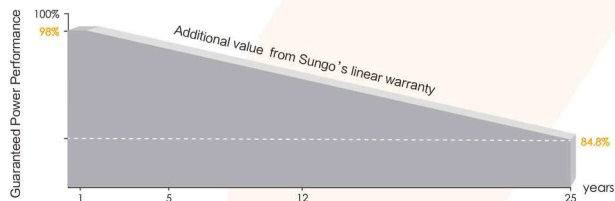


100% triple EL test enabling remarkable  
reduction of hidden crack rate of modules



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-MT50H-495	SG-MT50H-500	SG-MT50H-505	SG-MT50H-510	SG-MT50H-515
Maximum Power (Pmax/W)	495	500	505	510	515
Open Circuit Voltage (Voc/V)	51.5	51.7	41.9	52.1	52.3
Short Circuit Current (Isc/A)	12.21	12.28	12.35	12.42	12.49
Voltage at Maximum Power (Vmpp/V)	42.6	42.8	43.0	43.2	43.4
Current at Maximum Power (Impp/A)	11.63	11.69	11.75	11.81	11.87
Module Efficiency ( $\eta\%$ )	20.5	20.7	21.0	21.2	21.4

## MECHANICAL CHARACTERISTICS

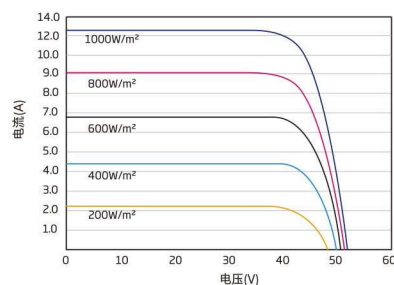
Cell type	PERC Monocrystalline 210×70 mm
Number of cells	150cells
Dimensions	2187×1102×35mm
Weight	26.5kg
Cables	4.0 mm <sup>2</sup> , wire length: 300mm
Junction Box	IP68
Mechanical Loading	5400 Pa
Glass	Tempered, 3.2 mm AR, High transmittance, Low iron
Frame	Anodized aluminum alloy
Connectors	MC4 Compatibility
Packing	31pcs/Pallet

## Temperature Ratings

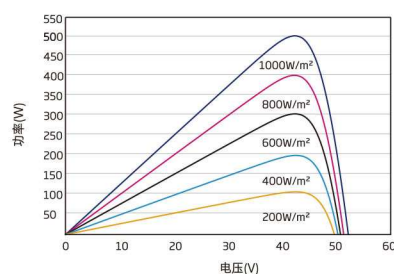
Temperature Coefficient of Pmax	-0.35%/°C
Temperature Coefficient of Voc	-0.27%/°C
Temperature Coefficient of Isc	+0.048%/°C
Working Temperature	-40°C~85°C
Normal Module Operating Temperature (NMOT)	45±2°C

## I-V Curve

组件的I-V曲线 (515W)



组件的P-V曲线 (515W)



## Design(mm)

