mine

MSP-380W

1.6℃

It's temperature is 1.6°C lower than that of the conventional module

4% more energy generation



Half-Cut technique leads to increased power output

When the cells are cut into halves, the current are also halved, which enables less internal loss. Series-parallel wiring improves power performance. The working temperature of module and junction box are lower than that of conventional types, which effectively reduces the hot spot risk and reduces overall module damage.



500

Series-parallel wiring mode results in reduced shading loss Series-parallel wiring will not only reduce power lows from shade but also

improves the effective use of supports and space.

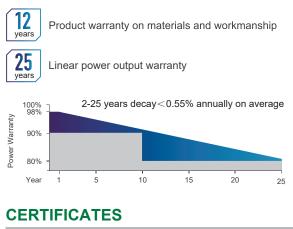
Excellent temperature performance

The temperature of HC module is 1.6 °C lower than that of the conventional module under the same working condition, which results less power loss.

Reduced encapsulation loss due to reduced current HC module is of lower current and lower CTM loss at around 0.2%, while the CTM loss of conventional module is 1%.

1500V high system voltage design

LINEAR PERFORMANCE WARRANTY



ISO 9001: 2015	IEC 61215 / IEC 61730
Quality Management System	OHSAS 18001: 2007
ISO 14001: 2015	Occupational Health &
Environmental Management System	Safety Managemnet System

*Certification requirements vary in different markets, please consult with marvel sales team for appropriate certification.





MSP-380W

ELECTRICAL PARAMETERS @ STC

Max. Power Output Pmax (W)	370	375	380	385	390
Power Tolerance	0~+3%	0~+3%	0~+3%	0~+3%	0~+3%
Max. Power Voltage Vmp (V)	34.11	34.41	34.71	35.00	35.30
Max. Power Current Imp (A)	10.85	10.90	10.95	11.00	11.05
Open Circuit Voltage Voc (V)	41.85	42.15	42.50	42.70	43.00
Short Circuit Current Isc (A)	11.37	11.42	11.47	11.52	11.57
Module Efficiency (%)	20.31	20.59	20.86	21.13	21.41

*STC (Standard Test Condition): Irradiance 1000W/m² , Cell Temperature 25 $^{\circ}\!C$, Air Mass 1.5 *Measurement Tolerance (±3.0%)

ELECTRICAL PARAMETERS @ NOCT

Max. Power Output Pmax (W)	274	278	283	286	290
Max. Power Voltage Vmp (V)	31.71	31.97	32.47	32.70	32.97
Max. Power Current Imp (A)	8.64	8.68	8.72	8.76	8.81
Open Circuit Voltage Voc (V)	38.69	38.96	39.53	39.71	39.98
Short Circuit Current Isc (A)	9.19	9.23	9.26	9.30	9.34

*NOCT(Nominal Operating Cell Temperature): Irradiance 80 0W/m² , Ambient Temperature 20 °C , Wind Speed 1m/s

TEMPERATURE COEFFICIENTS

Temperature Coefficients of Pmp	-0.36%/ °C
Temperature Coefficients of Voc	-0.29%/ °C
Temperature Coefficients of Isc	+0.048%/ °C

MECHANICAL PARAMETERS

Cell Type	Mono 166x83mm
Number of Cells	120pcs(6x20)
Dimensions (L*W*H)	1755x1038x30mm
Weight	20.5kg
Frame	Anodised Aluminum
Junction Box	IP68, 3 bypass diodes
Cable, Length	4.0mm ² , 300mm

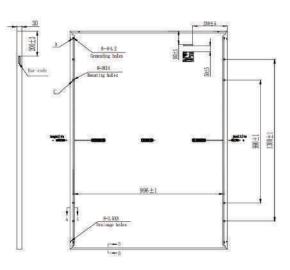
OPERATING CONDITION

Maximum System Voltage(V)	1000(DC)	1500(DC)	
Operating Temperature(C)	-40~+85		
Max. Wind Load / Snow Load(pa)	2400/5400		
Max. Over Current(A)	20		
Application Class	Cla	ss A	
Fire Rating	Cla	ss C	
NOCT(C)	45	±2	

PACKAGE INFORMATION

Container 40'HQ	988pcs
Quantity / Pallet	CTNR: 36, 36+4pcs

ASSEMBLY DRAWING (Unit:mm)



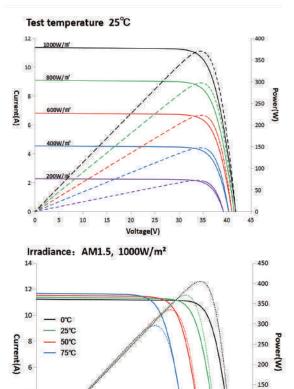
I-V CURVES

4

2

0

0 5 10 15 20 25 30 35 40 45 50



Voltage(V)



100

50

0