

145~160W Polycrystalline



MANAGEMENT SYSTEM

ISO 9001: Quality management system
 ISO 14001: Standard for environmental management system
 OHSAS 18001: International standard for occupational health and safety assessment system

PRODUCT CERTIFICATES



High Mechanical Loads of Wind and Snow

Certified to bear 2,400Pa wind load, and 5,400Pa snow load



Excellent Low Light Performance

On cloudy days, mornings and evenings



Highly Resistant to Salt-mist Corrosion

IEC-61701, Ed 2.0 certified



Resistant to Ammonia Corrosion

IEC-62716 certified



Resistant to PID (Potential Induced Degradation) effect

Qualified cell & materials lead to 60°C, 85%RH, -1000V, 96hr certified



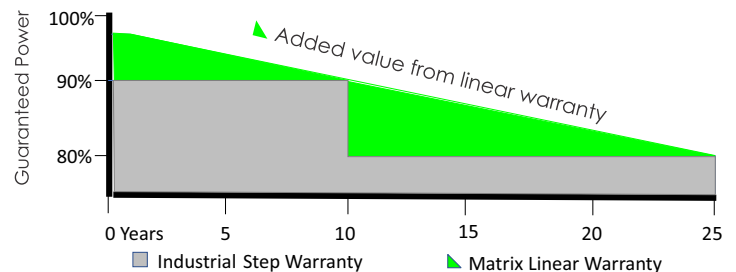
Individual Package

Easy delivery with single panel package



25 Years Linear Warranty of Power Output

Plus 10 years product warranty



Matrix Module 145~160W Polycrystalline



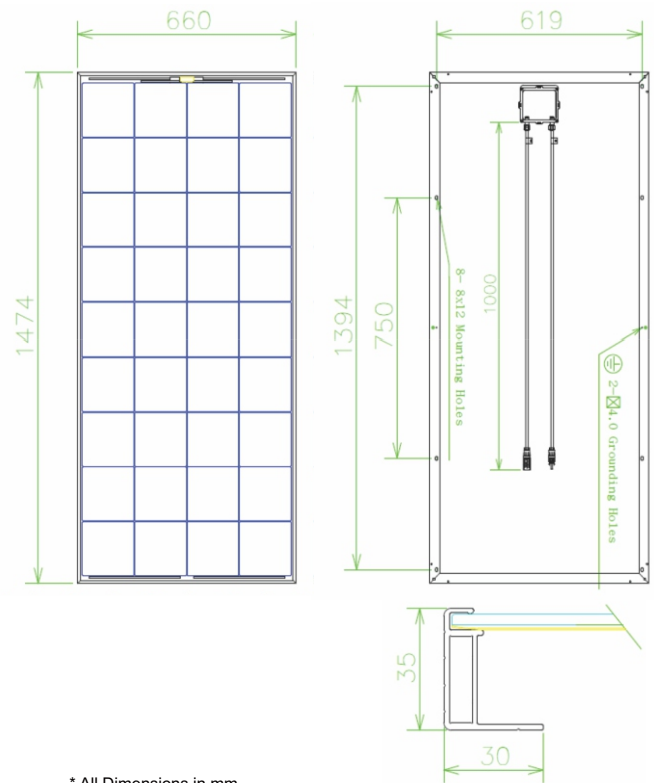
Electrical Characteristics

	MA-SW145P	MA-SW150P	MA-SW155P	MA-SW160P	Unit
Rated Power at STC (Pmp)	145	150	155	160	W
Power Tolerance	(+/-3%)	(+/-3%)	(+/-3%)	(+/-3%)	%
Maximum Power at STC	145	150	155	160	W
Minimum Module Efficiency (ηm)	14.9	15.4	15.9	16.5	%
Open Circuit Voltage (Voc)	22.53	22.71	23.01	23.19	V
Short Circuit Current (Isc)	8.58	8.81	8.98	9.2	A
Maximum Power Voltage (Vmp)	18.06	18.31	18.66	18.91	V
Maximum Power Current (Imp)	8.03	8.19	8.31	8.46	A
Maximum System Voltage	1000 (TÜV), 600 (UL)				V
Maximum Series Fuse Rating	15				A

STC: Irradiance 1000 W/m² module temperature 25 °C AM=1.5;
Power measurement tolerance: +/-3%

Temperature Characteristics

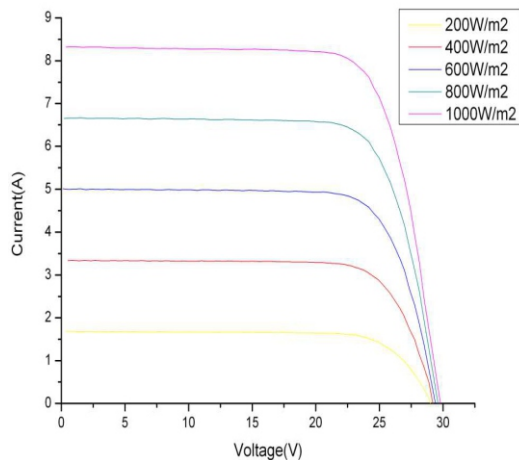
Pmax Temperature Coefficient	-0.43 %/ °C
Voc Temperature Coefficient	-0.34 %/ °C
Isc Temperature Coefficient	+0.08 %/ °C
Operating Temperature	-40~+85 °C
Nominal Operating Cell Temperature (NOCT)	45±2 °C



* All Dimensions in mm

* The above drawing is a graphical representation of the product.

IV Curve



Mechanical Specifications

External Dimensions	1474 x 660 x 35 mm
Weight	12.0 kg
Solar Cells	Polycrystalline 152 x 152 mm (36pcs)
Front Glass	3.2 mm tempered glass, low iron
Frame	Anodized/ Electrochromic aluminium alloy
Junction Box	IP65/IP67
Output Cables	4.0 mm ² , symmetrical lengths 1000 mm
Connector	MC4 Compatible
Mechanical Load	5400 Pa
Hailstone Impact Test	80 km/h for 25 mm ice ball