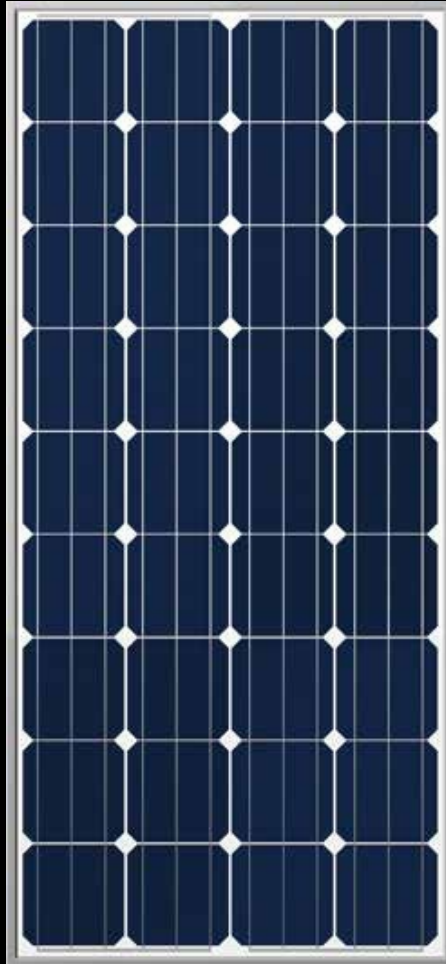


MA-SW100M | SERIES | 5 INCH 36 CELLS

MATRIX
INFINITY X

Matrix Module 100W Mono



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



WARRANTY

10 years] guarantee on product material

25 years] linear power output warranty

INSURANCE



Safety



Safety for salt mist corrosion (IEC61701, tested in Intertek)



Safety for ammonia corrosion (IEC62716, tested in TÜV SÜD)



Safety for fire risk (Class C, tested in TÜV SÜD and Rheinland)

Reliability



PID free products, passing TÜV SÜD system voltage durability test



World 1st company to pass "Thresher Test" and "On-site Power Measurement Validation" certificate



Bankable products

Performance



Advanced glass and solar cell surface texturing allow for excellent performance in low-light environments



100% In-line Electroluminescence (EL) tested during production process ensures modules are high quality



Top rank in Photon yield measurement

MA-SW100M | SERIES | 5 INCH 36 CELLS

Matrix Module 100W Mono



*BLACK FRAME / BLACK BACK-SHEET
PRODUCTS ARE AVAILABLE UPON
REQUEST.



Electrical Characteristics

	MA-SW090M	MA-SW095M	MA-SW100M	MA-SW105M	Unit
Rated Power at STC (Pmp)	90	95	100	105	W
Power Tolerance	(0,+4.99)	(0,+4.99)	(0,+4.99)	(0,+4.99)	W
Maximum Power at STC	94.99	99.99	104.99	109.99	W
Minimum Module Efficiency (ηm)	13.9	14.7	15.4	16.2	%
Open Circuit Voltage (Voc)	22.4	22.6	22.7	22.8	V
Short Circuit Current (Isc)	5.32	5.56	5.72	5.98	A
Maximum Power Voltage (Vmp)	18.1	18.2	18.4	18.5	V
Maximum Power Current (Imp)	4.98	5.22	5.44	5.68	A
Maximum System Voltage	1000 (TÜV), 600 (UL)				V
Maximum Series Fuse Rating	10				A

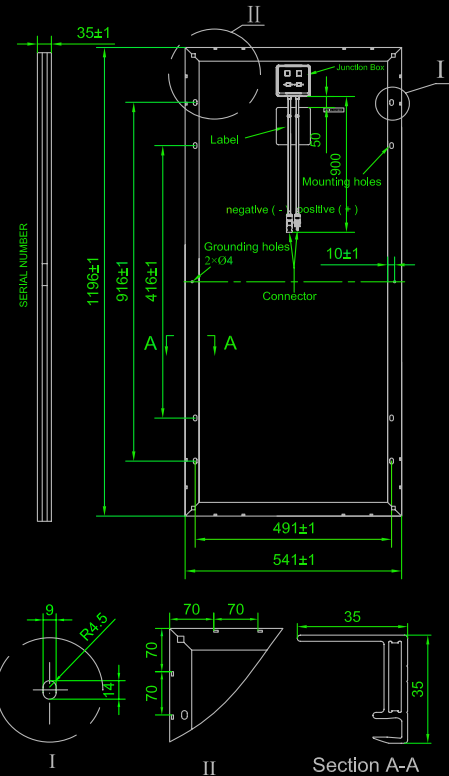
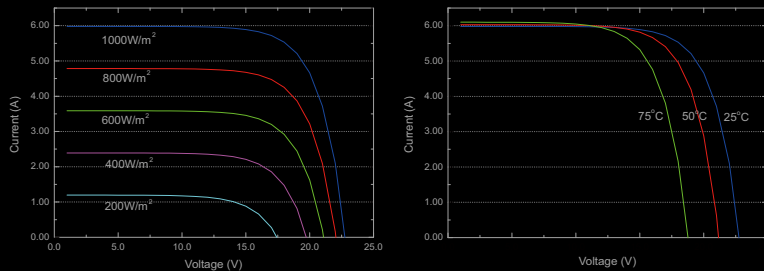
Temperature Characteristics

Pmax Temperature Coefficient	-0.43 %/ °C
Voc Temperature Coefficient	-0.32 %/ °C
Isc Temperature Coefficient	+0.04 %/ °C
Operating Temperature	-40~+85 °C
Nominal Operating Cell Temperature (NOCT)	45±2 °C

Packing Configuration

Container	20'GP	40'GP	40'HC
Pieces per Pallet	58	58	N.A
Pallets per Container	8	18	N.A
Pieces per Container	464	1044	N.A

Current-Voltage & Power-Voltage Curve (SRP-105-SMC)



* The above drawing is a graphical representation of the product.
For engineering quality drawings please contact

Mechanical Specifications

External Dimensions	1196 x 541 x 35 mm
Weight	8.0 kg
Solar Cells	Monocrystalline 125 x 125 mm (36pcs)
Front Glass	3.2 mm tempered glass, low iron
Frame	Anodized/ Electroprotective aluminium alloy
Junction Box	IP65/IP67
Output Cables	4.0 mm ² , symmetrical lengths 900 mm
Connector	MC4 Compatible
Mechanical Load	5400 Pa
Hailstone Impact Test	80 km/ h for 25 mm ice ball