

MA 5BB POLY MODULE
72 CELL Polycrystalline Module
315 W - 330 W



HIGH RETURN ON INVESTMENT

- Excellent for large scale installations.
- 1500V IEC certified.
- High power footprint reduces installation time and BOS costs.



HIGHER OUTPUT POWER PER SURFACE

- High quality Poly-crystalline 5BB cells.



EXCELLENT WITHSTAND CHALLENGING ENVIRONMENTAL CONDITIONS

- 35mm hail stones at 97 km/h.
- 2400Pa wind load and 5400 Pa snow load.



EXCELLENT DURABILITY RELIABILITY PERFORMANCE

- Excellent PID resistant.
- All modules have to pass electroluminescence inspection.



PRODUCT CERTIFICATES

- IEC 61 215 : 2016
- IEC 61 730 : 2016
- OHSAS 18 001 : 2007

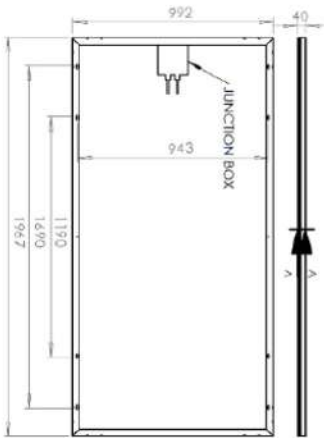


MANAGEMENT CERTIFICATES

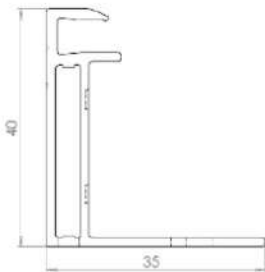
- ISO 9 001 :2015
- ISO 14 001 :2015



MECHANICAL SPECIFICATIONS



A-A SECTION



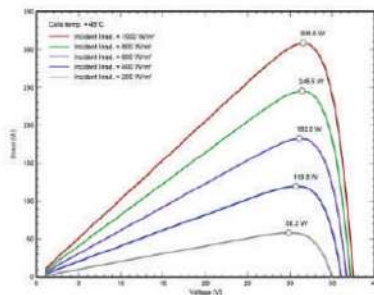
Module dimension	1967x992x40mm	Back-sheet	
Number of Cells	72	Frame	Aluminum
Weight	23Kg	Junction box	IP67, 3 diodes
Cell type	Polycrystalline 156.7x156.7mm	Cables	4mm ² (1500V)
Front-sheet	3.2mm thickness full tempered	Connector	QC4.10 (1500V)

ELECTRICAL CHARACTERISTICS

		315	320	325	330
STC Air Mass 1.5; Irradiance 1000W/m ² ; cell temperature 25°C	Maximum rated power (P _{max}) (0 ~ +5)	315	320	325	330
	Maximum power voltage (V _{mp})	38.3	38.5	38.8	40
	Open circuit voltage (V _{oc})	45	45.2	45.4	45.6
	Maximum power current (I _{mp})	8.2	8.3	8.4	8.5
	Short circuit (I _{sc})	8.7	8.8	8.9	9
Module efficiency (%)		16.1	16.4	16.6	16.8
NOCT Air Mass 1.5; Irradiance 800W/m ² ; ambient temperature 20°C	Maximum rated power (P _{max}) (0 ~ +5)	234	238	242	246
	Maximum power voltage (V _{mp})	35.6	35.8	36	36.2
	Open circuit voltage (V _{oc})	41.7	41.9	42.1	42.3
	Maximum power current (I _{mp})	6.55	6.6	6.7	6.8
	Short circuit (I _{sc})	7	7.1	7.2	7.3

Measuring power tolerance: ±3%

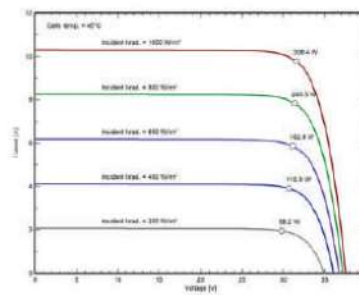
POWER-VOLTAGE CURVE



MAXIMUM RATINGS

Operational temperature	-40 o +85°C
Maximum system voltage	1500 V
Maximum series fuse rating	20 A

CURRENT-VOLTAGE CURVE



TEMPERATURE CHARACTERISTICS

Temperature coefficient of P _{max}	-0.390%/°C
Temperature coefficient of V _{oc}	-0.300%/°C
Temperature coefficient of I _{sc}	0.050%/°C
Nominal Operating Cell Temperature (NOCT)	45°C

