

MONO-PERC TECHNOLOGY
M3 72 CELL
390W – 405W POWER RANGE



HIGH RETURN ON INVESTMENT

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



HIGHER OUTPUT POWER PER SURFACE

- High quality monocrystalline PERC M3 cells.



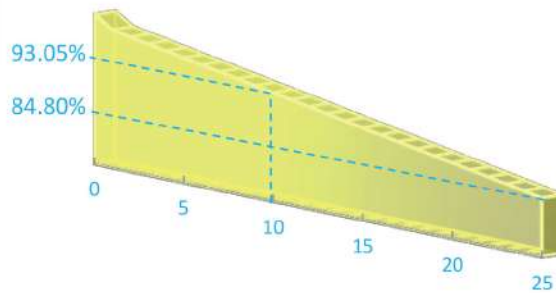
EXCELLENT WITHSTAND CHALLENGING ENVIRONMENTAL CONDITIONS

- 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.



First year maximum power degradation: **2%**
Subsequent maximum annual power degradation: **0.55%**



PRODUCT CERTIFICATES

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

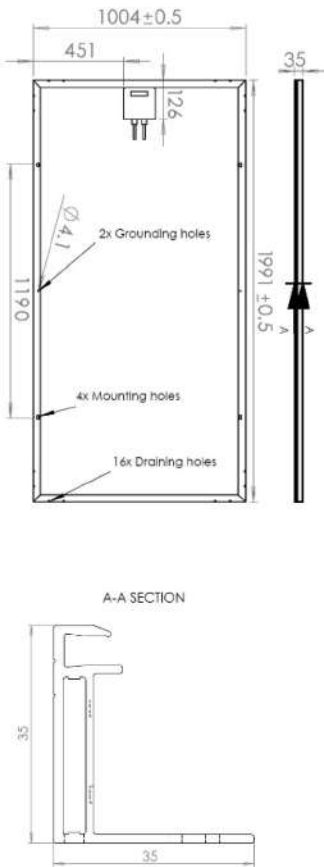


MANAGEMENT CERTIFICATES

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



MECHANICAL SPECIFICATIONS



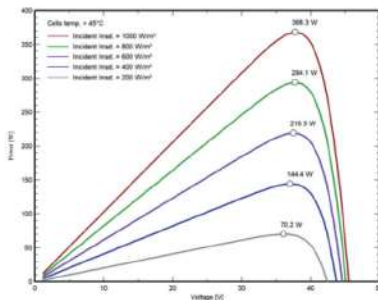
Module dimension	1991x1004x35mm	Back-sheet	White back sheet
Number of Cells	72	Frame	Aluminum
Weight	23Kg	Junction box	IP67, 3 diodes
Cell type	Perc Monocrystalline M3 cells	Cables	4mm ² (1500V)
Front-sheet	3.2mm tempered glass	Connector	QC4.10 (1500V)

ELECTRICAL CHARACTERISTICS

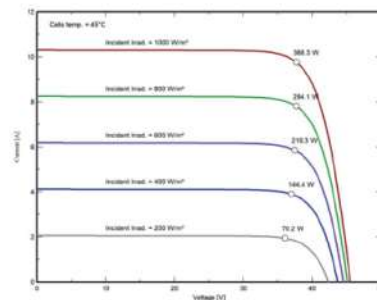
		390	395	400	405
STC Air Mass 1.5; Irradiance 1000W/m ² ; cell temperature 25°C	Maximum rated power (P _{max}) (0 ~ +5)	390	395	400	405
	Maximum power voltage (V _{mp})	40.53	40.81	41.15	41.47
	Open circuit voltage (V _{oc})	47.8	48.02	48.35	48.65
	Maximum power current (I _{mp})	9.62	9.68	9.73	9.78
	Short circuit (I _{sc})	10.07	10.12	10.17	10.22
Module efficiency (%)		19.5	19.7	19.9	20.1
NOCT Air Mass 1.5; Irradiance 800W/m ² ; ambient temperature 20°C	Maximum rated power (P _{max}) (0 ~ +5)	288	291	294	298
	Maximum power voltage (V _{mp})	37.65	37.85	38.05	38.25
	Open circuit voltage (V _{oc})	44.26	44.46	44.71	44.93
	Maximum power current (I _{mp})	7.68	7.73	7.79	7.84
	Short circuit (I _{sc})	8.05	8.09	8.13	8.17

Measuring power tolerance: ±3%

POWER-VOLTAGE CURVE



CURRENT-VOLTAGE CURVE



MAXIMUM RATINGS

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

TEMPERATURE CHARACTERISTICS

Temperature coefficient of P _{max}	-0.390%/°C
Temperature coefficient of V _{oc}	-0.300%/°C
Temperature coefficient of I _{sc}	0.060%/°C
Nominal Operating Cell Temperature (NOCT)	45°C

