



MASDAR
SOLAR PANELS
CATCHING THE SUN

MS72-FC-MF



**385W - 400W
POWER RANGE**

**72 CELL
MONOCRYSTALLINE
MODULE**

PERC TECHNOLOGY

☀️ HIGH RETURN ON INVESTMENT

- Excellent for large scale installations.
- High power reduces installation time and BOS costs.
- 1000/1500 VDC IEC certified.

⚡ HIGHER OUTPUT POWER PER SURFACE

- High quality monocrystalline PERC G1 cells.

⬆️ EXCELLENT DURABILITY RELIABILITY PERFORMANCE

- Excellent PID resistance.
- All modules pass electroluminescence inspection.

☀️ EXCELLENT WITHSTAND CHALLENGING ENVIRONMENTAL CONDITIONS

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

MANAGEMENT

CERTIFICATES

ISO 9001:2015
ISO 14001:2015
ISO 45001 : 2018

PRODUCT

CERTIFICATES

IEC 61215:2021
IEC 61730:2016
IEC 61701 SL6 (SALT MIST)
IEC 62716 (AMMONIA)
IEC 60068-2-68 (SAND& DUST)

10 years

product warranty

25 years linear
performance
warranty

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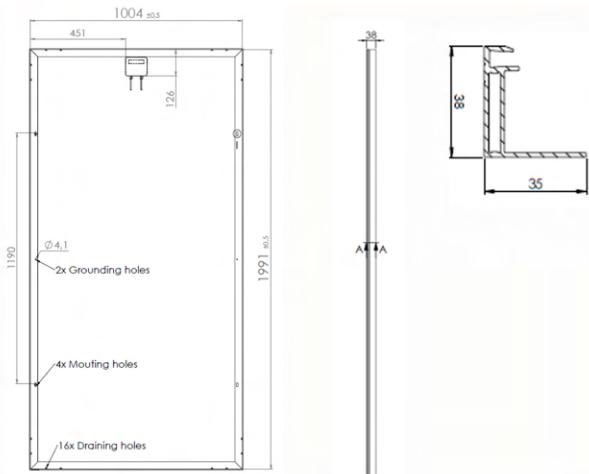
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Engineering Drawing



Mechanical Characteristics

Module dimension	1991x1004x38mm
Number of cells	72
Weight	23kg
Cell type	PERC Monocrystalline M3 cells
Glass	3.2mm thicknees fully templated - ARC
Backsheet	
Frame	Andized Aluminum Alloy
Jbox	IP67 Rated, 3 diodes
Cables	4mm ² (1500VDC) with cable lengh 100cm
Connection	QC4.10 (1500VDC)

Electrical Specifications

STC (Spectrum of AM 1.5; Irradiance 1000 W/m ² ; Cell temperatue 25°C)	Maximum rated power (Pmax)	W	385	390	395	400
	Maximum power voltage (Vmp)	V	40.39	40.53	40.75	41.05
	Open circuit voltage (Voc)	V	47.66	47.80	48.02	48.35
	Maximum power current (Imp)	A	9.55	9.61	9.67	9.73
	Short circuit current (Isc)	A	10.02	10.07	10.12	10.17
	Module efficiency	%	19.26	19.51	19.76	20.01
NOCT (Spectrum of AM 1.5; Irradiance 800 W/m ² ; Cell temperatue 20°C and wind speed 1m/s)	Maximum rated power (Pmax)	W	285	288	291	294
	Maximum power voltage (Vmp)	V	37.52	37.65	37.85	38.05
	Open circuit voltage (Voc)	V	44.13	44.26	44.46	44.71
	Maximum power current (Imp)	A	7.64	7.68	7.73	7.79
	Short circuit current (Isc)	A	8.01	8.05	8.09	8.13

Power measurement of flasher unit +/- 3%

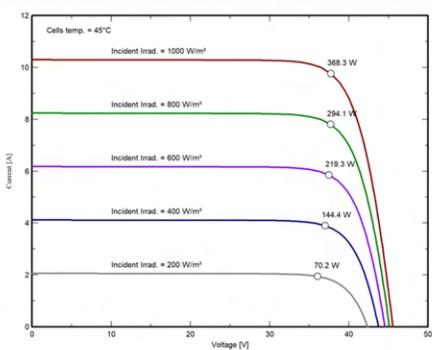
Maximum Ratings

Operational temperature	-40°C to 85°C
Maximum system voltage	1500VDC
Maximum series fuse rating	15A

Temperature Characteristics

Temperature coefficient of PMAX	-0.390%/°C
Temperature coefficient of VOC	-0.300%/°C
Temperature coefficient of ISC	0.060%/°C
Nomial Opeating Cell Temperature (NOCT)	45°C

Current-Voltage Curve



Power-Voltage Curve

