



MASDAR
SOLAR PANELS
CATCHING THE SUN

2022

MS60-FC-MF



320W - 335W
POWER RANGE

60 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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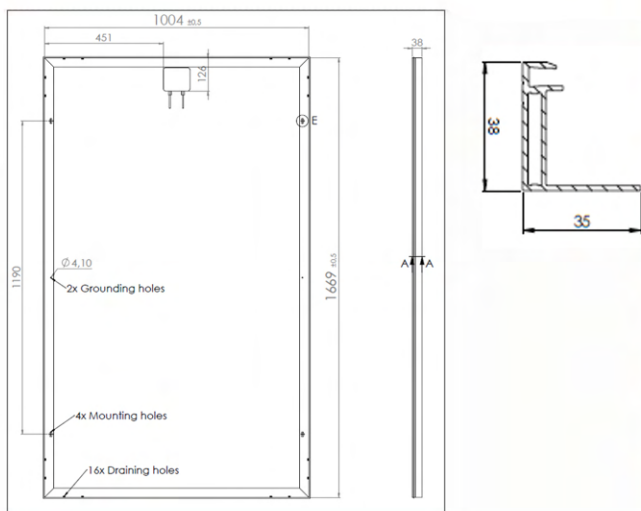
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Engineering Drawing



Mechanical Characteristics

Module dimension	1669x1004x38mm
Number of cells	60
Weight	18kg
Cell type	PERC Monocrystalline M3 cells
Glass	3.2mm thickness fully templated - ARC
Backsheet	
Frame	Anodized Aluminum Alloy
Jbox	IP67 Rated, 3 diodes
Cables	4mm ² (1500VDC) with cable length 100cm
Connection	QC4.10 (1500VDC)

Electrical Specifications

	Maximum rated power (Pmax)	W	320	325	330	335
STC (Spectrum of AM 1.5; Irradiance 1000 W/m ² ; Cell temperature 25°C)	Maximum power voltage (Vmp)	V	33.69	34.10	34.33	34.59
	Open circuit voltage (Voc)	V	39.63	39.98	40.16	40.36
	Maximum power current (Imp)	A	9.53	9.59	9.63	9.67
	Short circuit current (Isc)	A	10.06	19.20	10.14	10.18
	Module efficiency	%	19.09	19.39	19.69	19.99
NOCT (Spectrum of AM 1.5; Irradiance 800 W/m ² ; Cell temperature 20°C and wind speed 1m/s)	Maximum rated power (Pmax)	W	236	240	244	248
	Maximum power voltage (Vmp)	V	30.65	31.03	31.24	31.45
	Open circuit voltage (Voc)	V	32.1	32.28	32.52	32.73
	Maximum power current (Imp)	A	8.95	9.01	9.05	9.10
	Short circuit current (Isc)	A	8.04	8.08	8.11	8.15

Power measurement of flasher unit +/- 3%

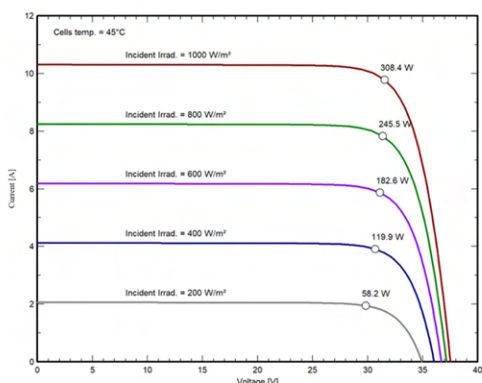
Maximum Ratings

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

Temperature Characteristics

Temperature coefficient of 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

Current-Voltage Curve



Power-Voltage Curve

