

MGS 72M10



# 520-550W



Superior aesthetics, all-black design



Robust product design for harsh weather conditions



Improved performance in shaded areas



Designed & engineered in the U.S, Made in Dubai

### Certifications:



Intertek



### Headquarter address

Magnus Green Solar LLC, 360 E 2<sup>nd</sup> St, STE 820  
Los Angeles, CA 90012 USA

+1-888-259-4196

info@magnusgreensolar.com

### Manufactured at:

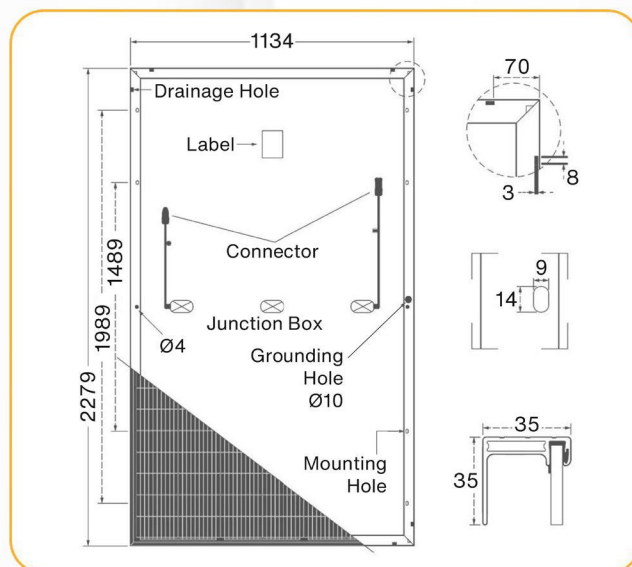
Magnus Green Solar Panels Manufacturing  
National Industries Park, Plot TP010505,  
Jebel Ali, Dubai, United Arab Emirates.

+971 50 786 3131

info@magnusgreensolar.com

## MECHANICAL SPECIFICATIONS

Cell Type	Mono 182x91mm
Weight	29kg
Dimension	2279x1134x35mm (LxWxT)
Cables	4.0mm <sup>2</sup> , Portrait: 300mm(+)/400mm(-) Landscape: 1400mm(+)/1400mm(-)
No. of Cells	144 (6x24)
Glass	3.2mm High Transmission, Antireflection Coating
Junction Box	IP68, 3 Bypass Diodes
Packing	31pcs/pallet, 620pcs/40HQ
Connector Type	Staubli Electrical Connectors AG (PV-KST4-EVO2/XY_UR)



## ELECTRICAL SPECIFICATIONS

Module Type	MGS-520-M72H-M10		MGS-525-M72H-M10		MGS-530-M72H-M10		MGS-535-M72H-M10		MGS-540-M72H-M10		MGS-545-M72H-M10		MGS-550-M72H-M10	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Testing Condition	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Open-circuit Voltage (Voc/V)	49.0	46.0	49.2	46.1	49.26	46.3	49.34	46.5	49.42	46.7	49.52	46.9	50.2	47.1
Maximum Power Voltage (Vmp/V)	41.2	38.6	41.41	38.8	40.56	39.0	40.63	39.2	40.70	39.4	40.80	39.6	42.41	39.8
Short-circuit Current (Isc/A)	13.42	10.84	13.48	10.89	13.71	10.94	13.79	10.99	13.85	11.04	13.94	11.09	13.78	11.13
Maximum Power Current (Imp/A)	12.63	10.01	12.68	10.06	13.07	10.11	13.17	10.15	13.27	10.20	13.36	10.24	12.97	10.29
Maximum Power (Pmax/W)	520	387	525	391	530	394	535	398	540	402	545	405	550	409
Module Efficiency (%)	20.12%		20.31%		20.51%		20.70%		20.89%		21.09%		21.28%	
Power Tolerance	±3%													
Tolerance of Rating Pmax/Isc/Voc%	±3%/±4%/±3%													

NOCT: Irradiance 800w/m<sup>2</sup>, Cell Temperature 20°C, Spectrum AM1.5, Wind Speed 1m/s STC: Irradiance 1000w/m<sup>2</sup>, Cell Temperature 25°C, Spectrum AM1.5

Binning Tolerance: 0 to +5W

## MAXIMUM RATINGS

Maximum System Voltage	1500V DC
Operating Temperature	-40°C to +85°C
Maximum Series Fuse	25A
Safety Class	II
Fire Rating	Class C
Static Loading	Snow Loading: 5400Pa/ Wind Loading: 2400Pa
Conductivity at Ground	≤0.1Ω
Resistance	≥100MΩ

## TEMPERATURE CHARACTERISTICS

NOCT Temperature	45°C±2°C
Temperature Coefficient (Pmax)	-0.37%/°C
Temperature Coefficient (Voc)	-0.29%/°C
Temperature Coefficient (Isc)	0.05%/°C

## PERFORMANCE WARRANTY

Max Power Degradation	0.5%/Year
97.5% At The End of 1 <sup>st</sup> Year	
93% At The End of 10 <sup>th</sup> Year	
85.5% At The End of 25 <sup>th</sup> Year	

## CURVE & TEMPERATURE DEPENDENCE

