

## 545~580 Watt

Transparent Glass  
Transparent backsheet



MG-580TD

## Key Features



### High Efficiency

Leading module efficiency in industry, up to 22.3%



### Half Cell, SMBB Technology

Series-then-parallel cell connection design, more reliable soldering technology



### High Reliability

Two times EL/Critical Visual inspection



### Excellent Anti-PID Performance

2 times of industry standard Anti-PID test



### Excellent Rear Side Power Generation

Bifaciality is up to 70%, up to 25% more energy yield than conventional modules



### Superior Low Irradiance Performance

Excellent low irradiance performance, increase power generation in low-light conditions like mornings, evenings and cloudy days

## Product and Quality Certifications

IEC 61215, IEC 61730

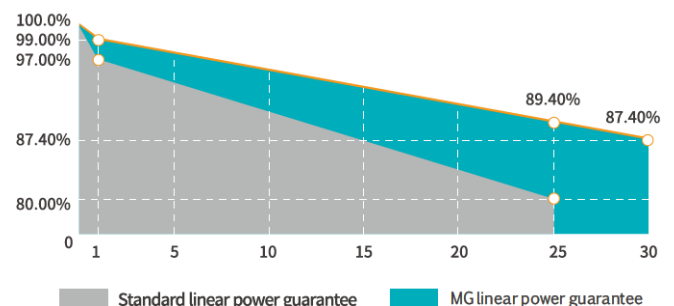
ISO 9001: Quality Management System

ISO 14001: Environment Management System

ISO 45001: Occupational Health and Safety Management System

IEC 62716, IEC 61701: Ammonia, Salt mist corrosion test

IEC TS 62804-1, IEC 60068-2-68: PID test, Dust and Sand test



### Electrical Characteristics (STC/NOCT)

	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power- Pmax(W)	545	408	550	412	555	416	560	421	565	425	570	429	575	432	580	436
Open Circuit Voltage - Voc(V)	49.81	47.53	50.03	47.66	50.51	47.79	50.84	48.13	51.63	48.32	51.91	48.51	52.18	48.70	52.82	48.89
Short- Circuit Current - Isc(A)	13.69	11.16	13.72	11.25	13.74	11.32	13.76	11.41	13.58	11.46	13.59	11.50	13.61	11.55	13.62	11.60
Voltage at Pmax -Vmp(V)	42.02	38.91	42.34	39.03	42.63	39.15	42.91	39.39	43.58	39.52	43.87	39.65	44.17	39.78	44.47	39.87
Current at Pmax - Imp(A)	12.97	10.48	12.99	10.56	13.02	10.62	13.05	10.89	12.97	10.75	12.99	10.81	13.02	10.87	13.04	10.94
Module Efficiency - 5m(%)	21.10	/	21.29	/	21.48	/	21.68	/	21.87	/	22.07	/	22.26	/	22.45	/
Power Tolerance(W)	(0, +4.99W)															
Maximum System Voltage(V)	1500Vdc (IEC / UL)															
Maximum Series Fuse Rating (A)	25A															

STC : Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, Air Mass 1.5

NOCT : Irradiance 800W/m<sup>2</sup>, Ambient Temperature 20°C, Air Mass 1.5, Wind Speed 1m/s

### Mechanical Specifications

External Dimensions	2278x1134x35mm
Weight	32kg
Solar Cells	Mono crystalline 182mm (2x72pcs)
Front Glass	AR Coated 2+2 mm tempered glass
Frame	Anodized aluminum alloy
Junction Box	IP68
Output Cables	4.0mm <sup>2</sup> , 1200mm (+), 1200mm (-), length can be customized
Connector	MC4 Compatible
Mechanical Load	Front Side Max. 5400Pa, Rear Side Max. 2400Pa

### Temperature Characteristics

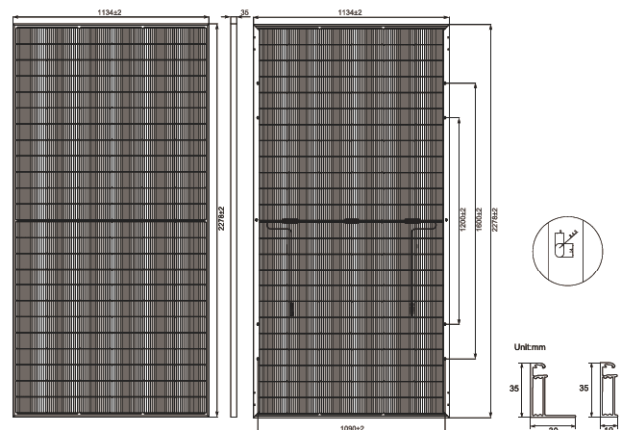
Short Circuit Current(Isc)	+0.045%/°C
Open Circuit Voltage(Voc)	-0.250%/°C
Nominal Max. Power(Pmax)	-0.300%/°C
NMOT	42 ± 2°C

### Packing Configuration

	2278x1134x35mm	
Container	20'GP	40'HQ
Pieces per Pallet	31	31
Pallets per Container	4	20
Pieces per Container	124	620

### Bifacial Output Rear Side Power Gain

Power Gain	5%	15%	25%
Maximum Power- Pmax(W)	588.0	644.0	700.0
Open Circuit Voltage - Voc(V)	50.77	50.79	50.80
Short- Circuit Current - Isc(A)	14.81	16.21	17.62
Voltage at Pmax -Vmp(V)	42.05	42.08	42.09
Current at Pmax - Imp(A)	13.98	15.31	16.64



All Dimensions in mm

The above drawing is a graphical representation of the product. For engineering quality drawings please contact MogenSolar.

### Current-Voltage & Power-Voltage Curves

