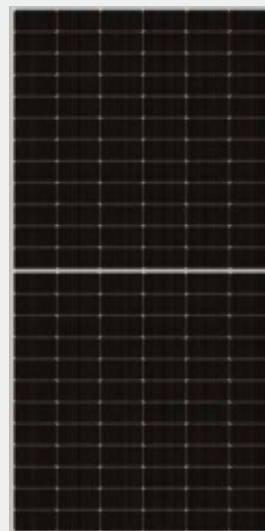


525~550 Watt

182mm 144Cells PV Solar Module

Perc Mono



MG-550TD

Key Features



High Efficiency

Leading module efficiency in industry, up to 21.5%



Excellent Appearance and Performance

Bifacial solar cell, symmetrical design, low risk of micro-crack



High Reliability

Passed 3*IEC standard test, 15 years materials warranty, 30 years power warranty



Excellent Rear Side Power Generation

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



Reduce Mismatch Loss

Half-cut cell technology provides optimized energy production under inter-row shading conditions



Extensive Application Scenes

More extensive application scenes, such as BIPV, snow field, vertical installation, high humidity, strong wind and desert region

Product and Quality Certifications

IEC 61215, IEC 61730

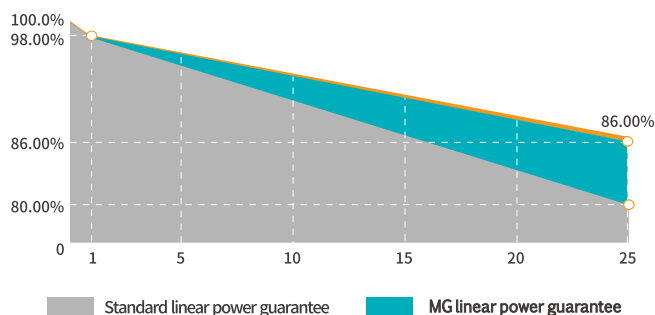
ISO 9001: Quality Management System

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)

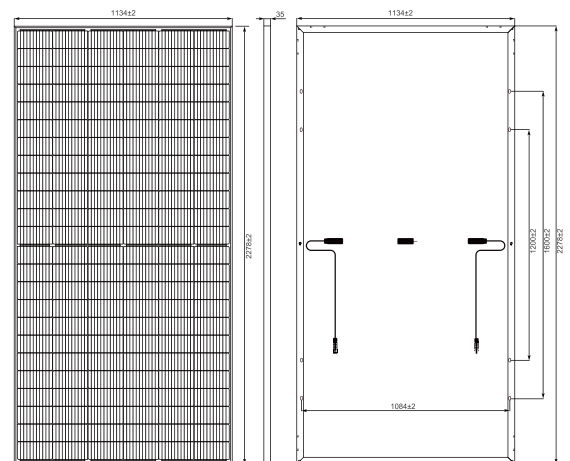
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power- Pmax(W)	525	397	530	401	535	405	540	408	545	412	550	416
Open Circuit Voltage - Voc(V)	49.15	46.05	49.30	46.18	49.45	46.31	49.60	46.43	49.75	46.55	49.90	46.68
Short- Circuit Current - Isc(A)	13.65	10.97	13.72	11.01	13.79	11.05	13.86	11.09	13.93	11.13	14.00	11.17
Voltage at Pmax -Vmp(V)	41.15	38.36	41.31	38.57	41.47	38.78	41.64	38.99	41.80	39.20	41.96	39.43
Current at Pmax - Imp(A)	12.76	10.35	12.83	10.39	12.90	10.43	12.97	10.47	13.04	10.51	13.11	10.55
Module Efficiency - 5m(%)	20.3	/	20.5	/	20.7	/	20.9	/	21.1	/	21.3	/
Power Tolerance(W)	(0, +4.99W)											
Maximum System Voltage(V)	1500Vdc (IEC / UL)											
Maximum Series Fuse Rating (A)	25A											

STC : Irradiance 1000W/m², Cell Temperature 25°C, Air Mass 1.5

NOCT : Irradiance 800W/m², Ambient Temperature 20°C, Air Mass 1.5, Wind Speed 1m/s

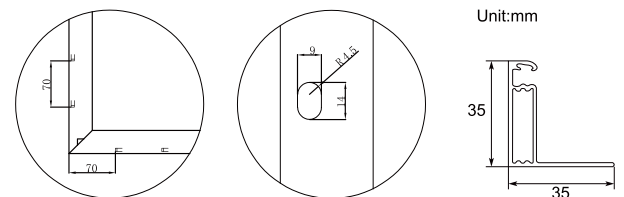
Mechanical Specifications

External Dimensions	2278x1134x35mm
Weight	28.6kg
Solar Cells	Mono crystalline 182mm (2x72pcs)
Front Glass	AR Coated 3.2 mm tempered glass
Frame	Anodized aluminum alloy
Junction Box	IP68
Output Cables	4.0mm ² , 1200mm (+), 1200mm (-), length can be customized
Connector	MC4 Compatible
Mechanical Load	Front Side Max. 5400Pa, Rear Side Max. 2400Pa



Temperature Characteristics

Pmax Temperature Coefficient	-0.350%/°C
Voc Temperature Coefficient	-0.275%/°C
Isc Temperature Coefficient	+0.045%/°C
Operating Temperature	-40 ~ +85°C
Nominal Operating Cell Temperature(NOCT)	45±2°C



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

Packing Configuration

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

Current-Voltage & Power-Voltage Curves

