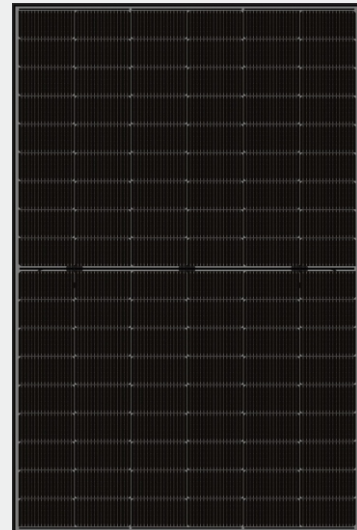


415~435 Watt

Full Black with Transparent Glass
 Black Grid Glass
 Black backsheet

TOPCon



MG-430TD

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

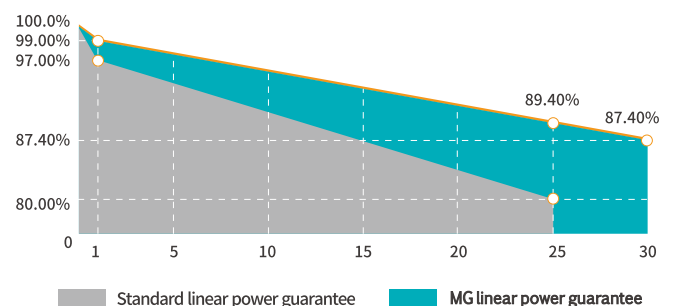
ISO 9001: Quality Management System

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
Maximum Power- Pmax(W)	415	315.3	420	319.1	425	322.8	430	326.5	435	330.2
Open Circuit Voltage - Voc(V)	37.92	35.90	38.76	36.10	39.04	36.20	39.53	36.40	40.02	36.50
Short- Circuit Current - Isc(A)	13.99	11.28	13.54	11.34	13.56	11.41	13.57	11.47	13.58	11.53
Voltage at Pmax -Vmp(V)	31.32	29.50	32.26	29.70	32.55	29.90	32.85	30.10	33.14	30.30
Current at Pmax - Imp(A)	13.25	10.68	13.02	10.74	13.06	10.80	13.09	10.87	13.13	10.90
Module Efficiency - 5m(%)	21.30	/	21.50	/	21.80	/	22.00	/	22.27	/
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	1722x1134x30mm
Weight	21kg
Solar Cells	N-Type 16BB 182mm (2x54pcs)
Front Glass	AR Coated 1.6+1.6 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

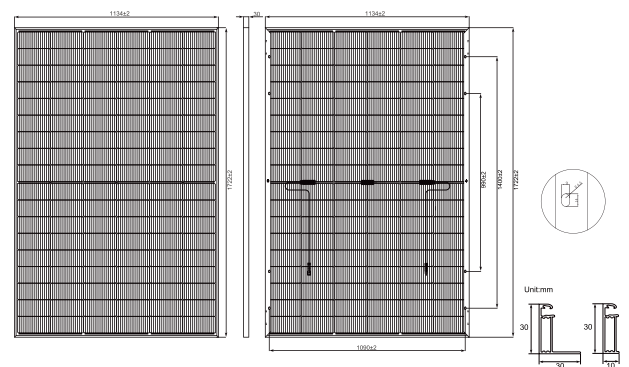
Short Circuit Current(Isc)	+0.045%/°C
Open Circuit Voltage(Voc)	-0.250%/°C
Nominal Max. Power(Pmax)	-0.300%/°C
NMOT	42 ± 2°C

Packing Configuration

	1722x1134x30mm	
Container	20'GP	40'HQ
Pieces per Pallet	36	36
Pallets per Container	6	26
Pieces per Container	216	936

Bifacial Output Rear Side Power Gain

Power Gain	10%	15%	20%	25%	30%
Maximum Power- Pmax(W)	473.0	494.5	516.0	537.5	554.0
Open Circuit Voltage - Voc(V)	38.60	38.70	38.80	38.80	38.90
Short- Circuit Current - Isc(A)	15.70	16.44	17.18	17.93	18.50
Voltage at Pmax -Vmp(V)	31.70	31.60	31.60	31.60	31.50
Current at Pmax - Imp(A)	14.94	15.64	16.33	17.04	17.58



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

