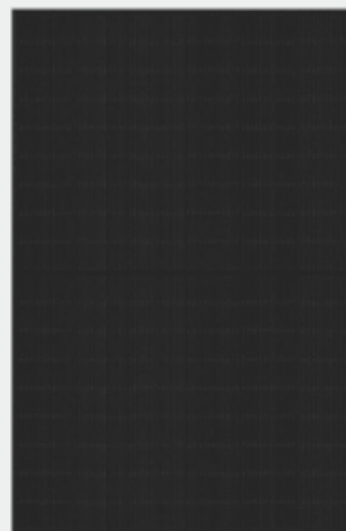


# 410~430 Watt

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

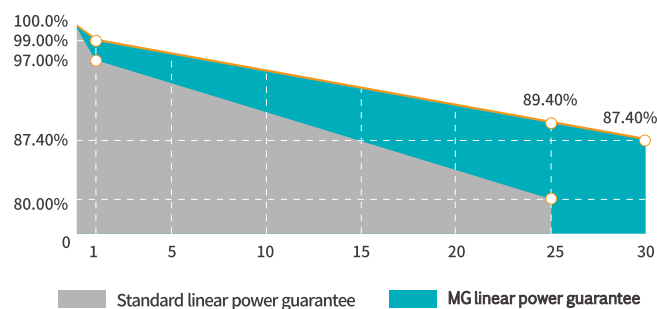
ISO 9001: Quality Management System

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)

Front Side	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power- Pmax(W)	410	313.5	420	317.3	425	321.1	430	325.0	435	328.7
Open Circuit Voltage - Voc(V)	38.20	36.30	38.76	36.40	39.04	36.50	39.53	36.60	40.02	36.80
Short- Circuit Current - Isc(A)	13.93	11.23	13.54	11.30	13.56	11.36	13.57	11.42	13.58	11.49
Voltage at Pmax -Vmp(V)	31.59	29.60	32.26	29.70	32.55	29.90	32.85	30.00	33.14	30.20
Current at Pmax - Imp(A)	12.98	10.60	13.02	10.68	13.06	10.75	13.09	10.82	13.13	10.89
Module Efficiency - 5m(%)	21.00	/	21.30	/	21.50	/	21.80	/	22.00	/
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	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 <sup>2</sup> , 1200mm (+),1200mm (-), length can be customized
Connector	MC4 Compatible
Mechanical Load	Front Side Max. 5400Pa, Rear Side Max. 2400Pa

### Temperature Characteristics

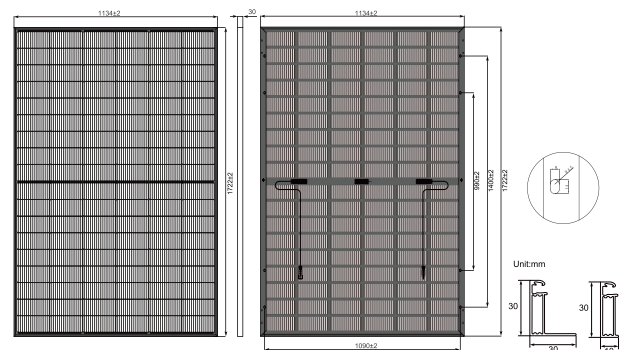
Short Circuit Current(Isc)	+0.045%/°C
Open Circuit Voltage(Voc)	-0.250%/°C
Nominal Max. Power(Pmax)	-0.300%/°C
NMOT	42 ± 2°C

### Packing Configuration

	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	5%	15%	25%
Maximum Power- Pmax(W)	441.0	483.0	525.0
Open Circuit Voltage - Voc(V)	38.50	38.50	38.60
Short- Circuit Current - Isc(A)	14.79	16.20	17.61
Voltage at Pmax -Vmp(V)	32.00	32.00	32.10
Current at Pmax - Imp(A)	13.80	15.11	16.43



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

