

SYSTEM & PRODUCT CERTIFICATES

- IEC 61215 / IEC 61730 / UL 61730
- ISO 9001: 2015 Quality Management System
- ISO 14001: 2015 Environment Management System
- ISO 45001: 2018 Occupational Health and Safety Management Systems

PERFORMANCE WARRANTY

KEY FEATURES



16BB Half-cut Cell Technology

Lower LID/LeTID degradation and better low light performance
Attenuation 1% (1st year) / 0.4% (Linear)



Industry Leading High Yield

Bifacial TOPCon cell technology,
Dual-sided power generation gain from back side depending on albedo, significantly reduce LCOE



Excellent Anti-PID Performance

192 hours Anti-PID test



ELECTRICAL CHARACTERISTICS

Testing Condition	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power (Pmax/W)	420	319	425	323	430	326	435	330	440	334
Operating Voltage (Vmpp/V)	32.42	30.70	32.55	30.90	32.68	31.10	32.81	31.30	32.94	31.50
Operating Current (Impp/A)	12.96	10.39	13.06	10.44	13.16	10.49	13.26	10.54	13.36	10.59
Open-Circuit Voltage (Voc/V)	38.70	36.70	38.85	36.80	39.00	37.00	39.15	37.10	39.30	37.20
Short-Circuit Current (Isc/A)	13.57	10.95	13.62	10.98	13.67	11.02	13.72	11.06	13.77	11.10
Module Efficiency (%)	21.50		21.80		22.00		22.30		22.50	

STC: Irradiance 1000W/m², Spectra at AM1.5, Module Temperature 25 . Power output tolerance: 0~+5W, Test uncertainty for Pmax : ±3%
 NMOT : Irradiance 800W/m², Spectra at AM1.5, Ambient Temperature 20 , Wind speed 1m/s

REAR SIDE POWER GAIN(REFERENCE TO 430W FRONT)

Pmax gain	5%	10%	15%	20%	25%
Pmax/W	452	473	495	516	538
Vmpp/V	32.68	32.68	32.68	32.68	32.68
Impp/A	13.82	14.48	15.13	15.79	16.45
Voc/V	39.00	39.00	39.00	39.00	39.00
Isc/A	14.35	15.04	15.72	16.40	17.09

MECHANICAL CHARACTERISTICS

Cell Type	N-type Mono-Crystallin (16Busbar)
No. of Cells	108pcs in series (6*18)
Module Dimensions	1722*1134*30mm (67.80*44.65*1.18inches)
Weight	24.5kg (54.01lbs)
Front Glass	2.0mm AR Coating Semi-tempered Glass
Back Glass	2.0mm Glazed Semi-tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68, 3 Bypass Diodes
Output Cables	4mm ² (IEC), 12AWG(UL) 350mm(+),250mm(-) or Customized Length
Connectors	T01/LJQ-3-CSY/MC4/MC4-EV02

APPLICATION CONDITIONS

Maximun System Voltage	1500V/DC
Operating Temperature	-40°C~+85°C
Maximun Series Fuse	30A
Safety Protection Class	Class
Mechanical Load	Front side 5400Pa, Back side 2400Pa
Refer. Bifaciality Factor	80%±5%

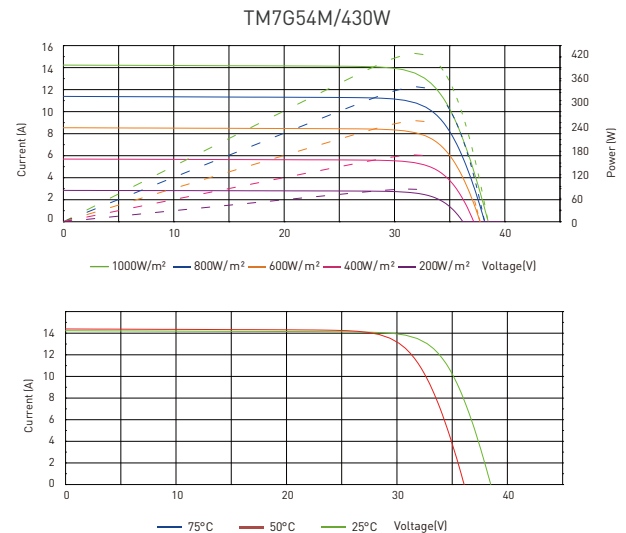
TEMPERATURE CHARACTERISTICS

Temperature Coefficient of Pmax	-0.29%/°C
Temperature Coefficient of Voc	-0.24%/°C
Temperature Coefficient of Isc	+0.043%/°C
Nominal Module Operating Temperature(NMOT)	43±2°C

PACKING CONFIGURATION

Pieces Per Pallet	36	36(USA)
Pieces Per Container(40'HQ)	936	720

Electrical Performance



TECHNICAL DRAWINGS



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