

## JHN5/54GD 415-435Wp

N-TOPCon Bifacial Dual Glass Module



### M10 N-TOPCon Technology

TOPCon cells combined with MBB provides ultra-high power output



### Higher Bifacial Rate

Bifacial technology enables additional energy harvesting from rear side



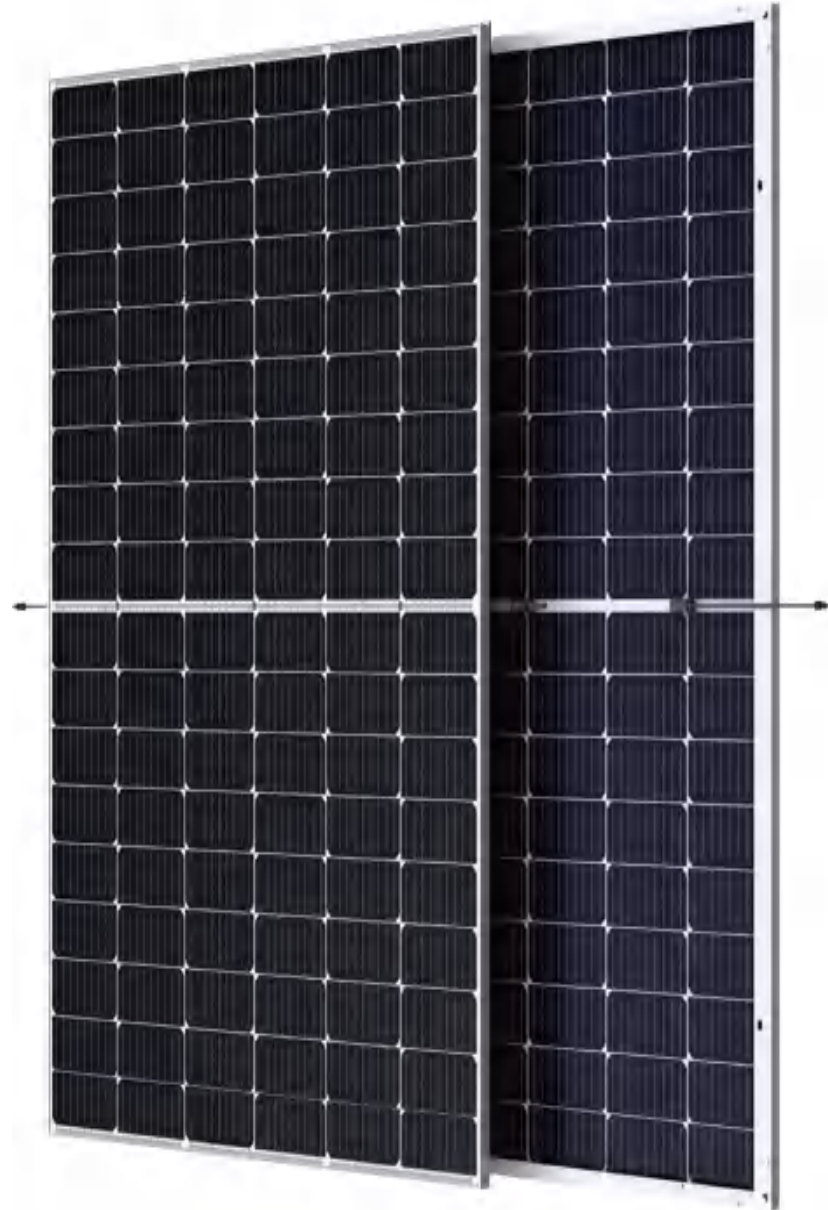
### Lower LID

The N-type TOPCon module has better reliability and lower LID

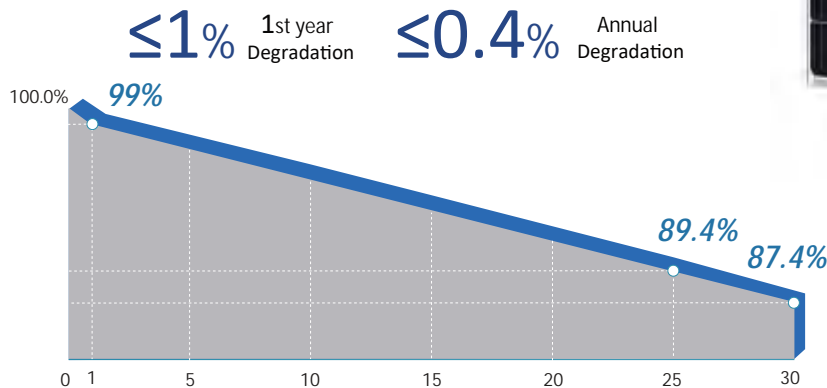


### PID Resistance

According to IEC TS 62804-1



### Linear Performance Warranty



**12** Years Product Warranty

**30** Years Linear Power Warranty



IEC61215:2021  
IEC61730:2016  
IEC62804(PID free)  
ISO9001/14001/45001

**ELECTRICAL CHARACTERISTICS**

Module Type	JHN5/54GD415		JHN5/54GD420		JHN5/54GD425		JHN5/54GD430		JHN5/54GD435	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Peak Power (Pmax) (W)	415	308	420	312	425	315	430	319	435	323
Maximum Power Voltage (Vmp) (V)	31.3	29.4	31.5	29.6	31.7	29.8	31.9	30.0	32.1	30.1
Maximum Power Current (Imp) (A)	13.26	10.47	13.34	10.54	13.41	10.57	13.48	10.63	13.55	10.73
Open-circuit Voltage (Voc) (V)	37.9	35.6	38.1	35.8	38.3	36.0	38.5	36.1	38.7	36.3
Short-circuit Current (Isc) (A)	13.99	11.30	14.07	11.36	14.15	11.42	14.23	11.49	14.31	11.55
Module Efficiency	21.23%		21.48%		21.74%		21.99%		22.25%	

\*STC (Standard Test Condition): Irradiance 1000W/ m<sup>2</sup>, Cell Temperature 25°C, AM 1.5

\*NMOT(Under Nominal Module Operating Temperature): Irradiance of 800W/ m<sup>2</sup>, Spectrum AM 1.5, Ambient Temperature 20°C, Wind Speed 1m/s

**Rearside Power Gain** (Reference to JHN5/54GD425)

Rearside Power gain	5%	10%	15%	20%	25%
Peak Power (Pmax) (W)	446	468	489	510	531
Maximum Power Voltage (Vmp) (V)	31.7	31.7	31.7	31.8	31.8
Maximum Power Current (Imp) (A)	14.08	14.75	15.42	16.04	16.71
Open-circuit Voltage(Voc) (V)	38.3	38.3	38.3	38.3	38.3
Short-circuit Current (Isc) (A)	14.86	15.56	16.27	16.93	17.63

**MECHANICAL CHARACTERISTICS**

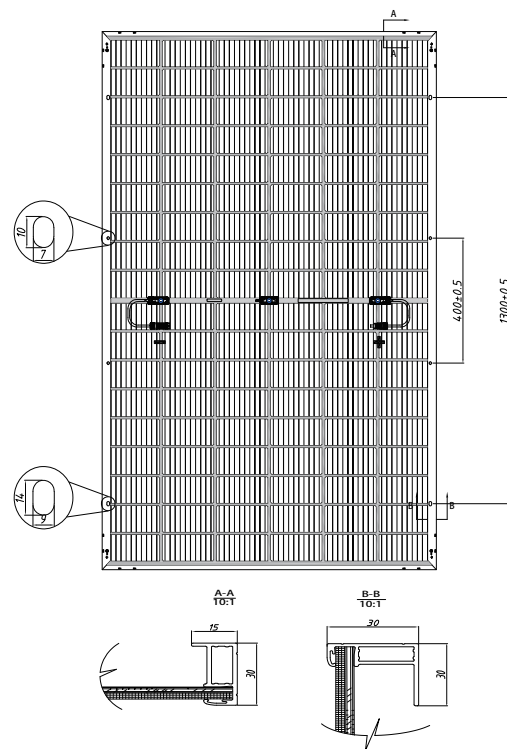
Cell Type	N-TOPCon Mono-Crystalline
Cell Arrangement	108pcs (2×(6×9))
Dimension (L×W×H)	1722×1134×30mm
Weight	24.5kg
Front Cover	2.0mm +2.0mm Half Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68, 3 Bypass Diodes
Cable	4mm <sup>2</sup> /400mm(+)&200mm(-)
Connector	MC4 Compatible
Snow/Wind Load	5400Pa/2400Pa

**OPERATING PARAMETERS**

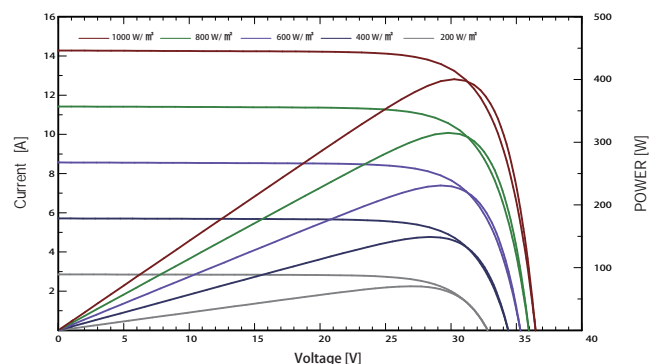
Power tolerance	0~+5W
Maximum System Voltage	1500V DC ( IEC )
Operating Temperature	-40°C~+85°C
Maximum Series Fuse Rating	30 A
Protection Class	Class II
Bifaciality	80±5%

**Engineering Design**

\*Unit:mm



**I-V/P-V Curve at Different Irradance (425W)**



\*Power measurement tolerance: ±3%

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