

# JHN5/54H 415-435Wp

N-TOPCon Monocrystalline Half-cut Cell Solar Module



### M10 N-TOPCon Technology

TOPCon cells combined with MBB provides ultra-high power output



### Excellent weak light performance

More power output in weak light condition, such as cloudy, morning and sunset



### Lower LID

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



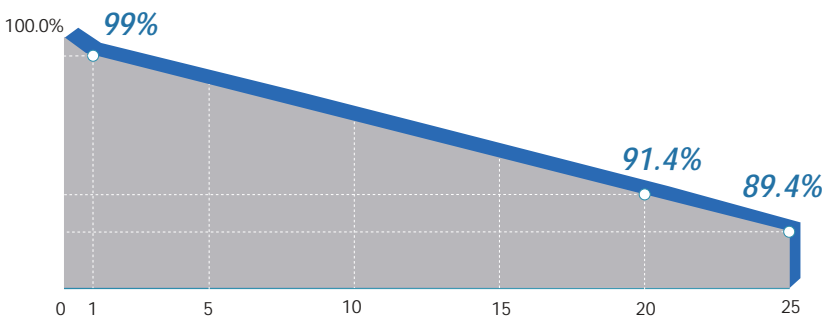
### PID Resistance

According to IEC TS 62804-1



## Linear Performance Warranty

$\leq 1\%$  1st year Degradation      $\leq 0.4\%$  Annual Degradation



**12** Years Product Warranty

**25** Years Linear Power Warranty



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

## ELECTRICAL CHARACTERISTICS

Module Type	JHN5/54H415		JHN5/54H420		JHN5/54H425		JHN5/54H430		JHN5/54H435	
	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	21.25%		21.51%		21.76%		22.02%		22.28%	

\*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

## MECHANICAL CHARACTERISTICS

Cell Type	N-TOPCon Mono-Crystalline
Cell Arrangement	108pcs (2×(6×9))
Dimension (L×W×H)	1722×1134×35mm
Weight	21.5kg
Front Cover	3.2mm 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	25 A
Protection Class	Class II

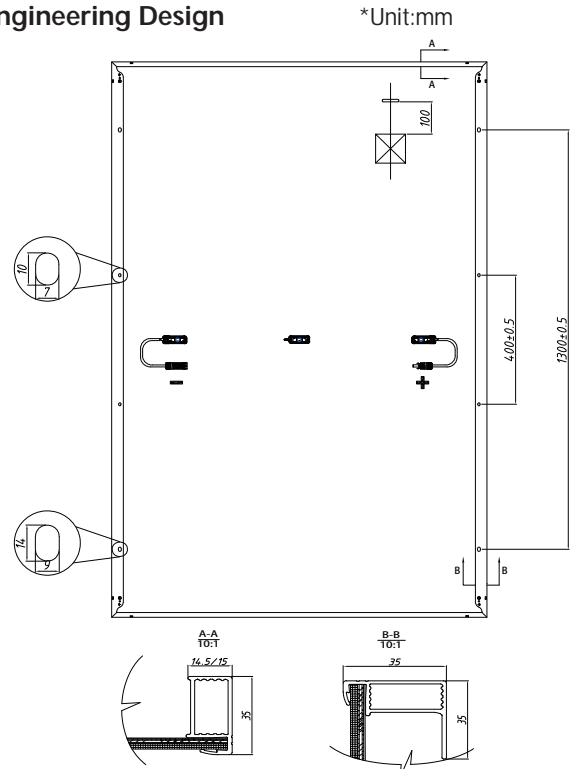
## TEMPERATURE CHARACTERISTICS

Temperature coefficient of Pmax	-0.33%
Temperature coefficient of Voc	-0.26%
Temperature coefficient of Isc	0.055%
NMOT	44±2°C

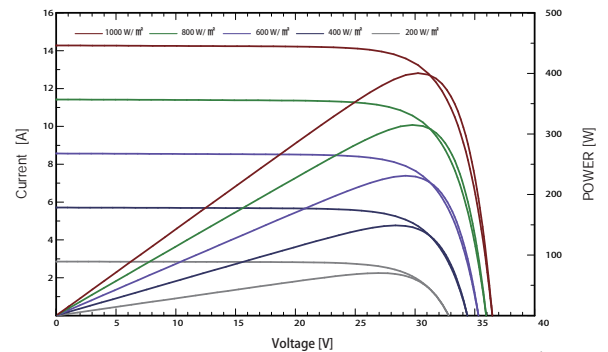
## PACKING MANNER

Packing Type	40HQ
Piece/Pallet	31
Pallet/Container	26
Piece/Container	806

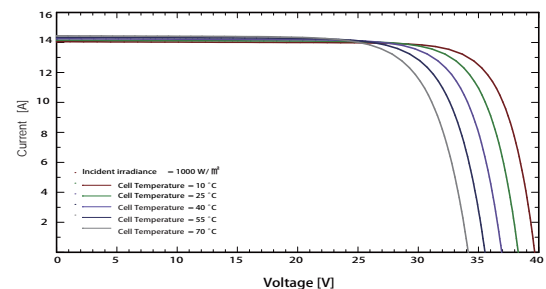
## Engineering Design



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



## I-V Curve at Different Working Temperature (425W)



\*Power measurement tolerance: ±3%

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