

## JHN5/78H 610-630Wp

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



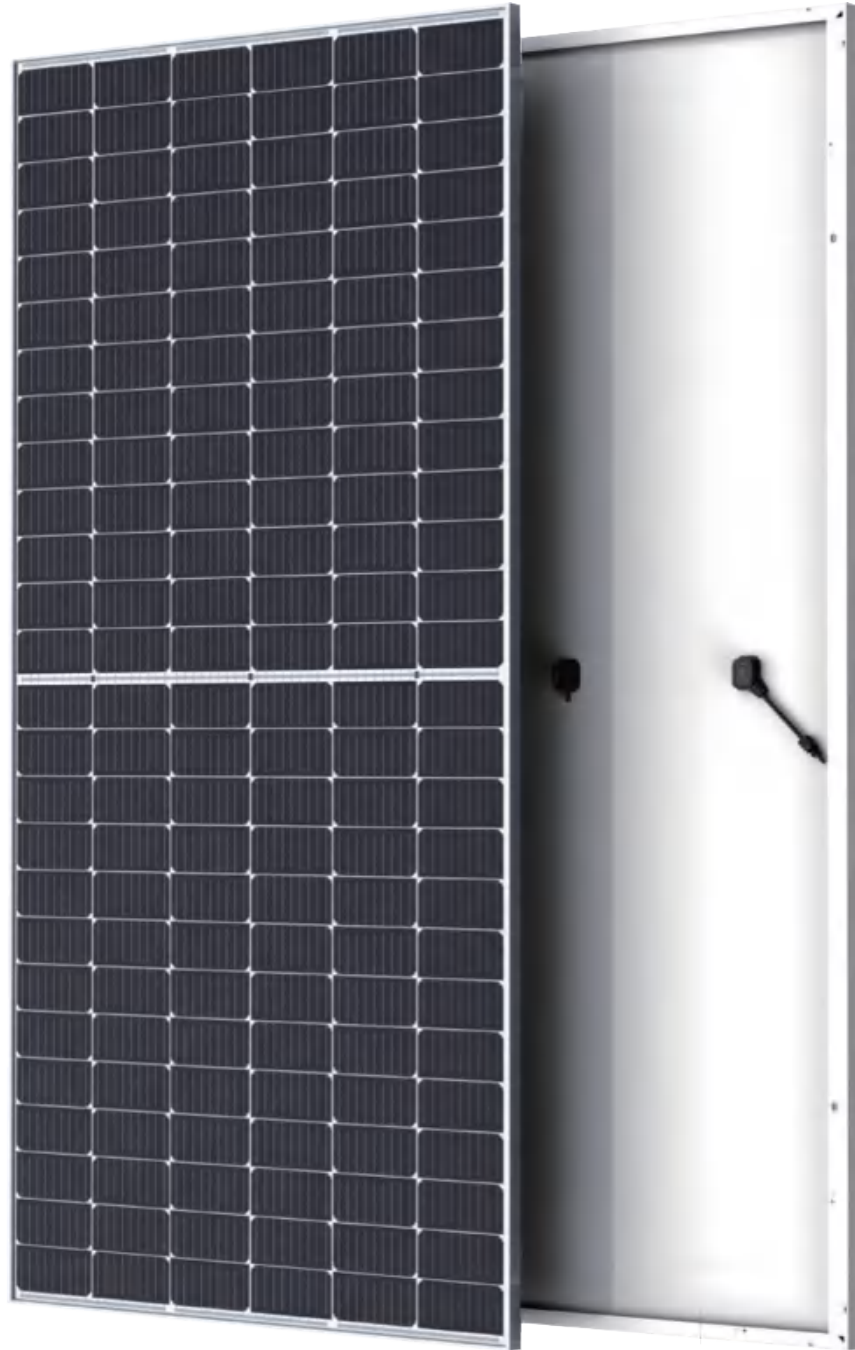
### Lower LID

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



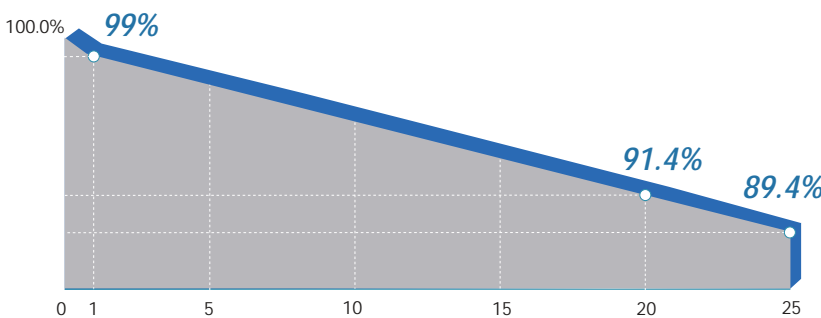
### PID Resistance

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	JHN5/78H610		JHN5/78H615		JHN5/78H620		JHN5/78H625		JHN5/78H630	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Peak Power (Pmax) (W)	610	454	615	458	620	462	625	466	630	470
Maximum Power Voltage (Vmp) (V)	45.6	43.2	45.7	43.4	45.8	43.5	45.9	43.6	46.0	43.7
Maximum Power Current (Imp) (A)	13.38	10.50	13.46	10.56	13.54	10.63	13.62	10.69	13.70	10.75
Open-circuit Voltage (Voc) (V)	55.3	51.9	55.4	52.0	55.5	52.1	55.6	52.2	55.7	52.3
Short-circuit Current (Isc) (A)	14.03	11.35	14.11	11.41	14.19	11.48	14.27	11.54	14.35	11.60
Module Efficiency	21.82%		22.00%		22.18%		22.36%		22.54%	

\*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**

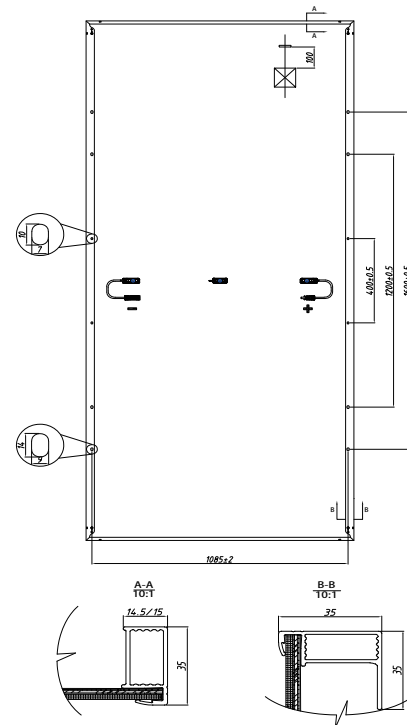
Cell Type	N-TOPCon Mono-Crystalline
Cell Arrangement	156pcs (2×(6×13))
Dimension (L×W×H)	2465×1134×35mm
Weight	30.6kg
Front Cover	3.2mm Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68, 3 Bypass Diodes
Cable	4mm <sup>2</sup> /400mm(+)&200mm(-)
Connector	MC4 Compatible
Snow/Wind Load	5400Pa/2400Pa

**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

**Engineering Design**

\*Unit:mm



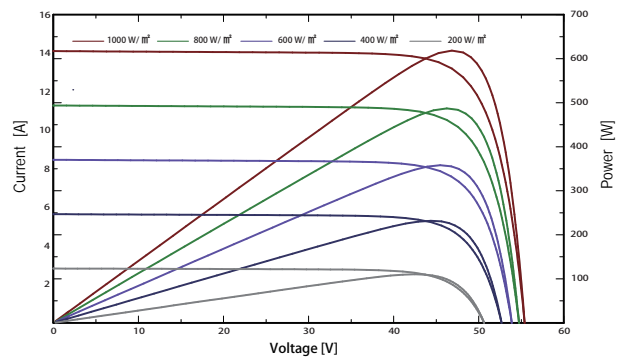
**TEMPERATURE CHARACTERISTICS**

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

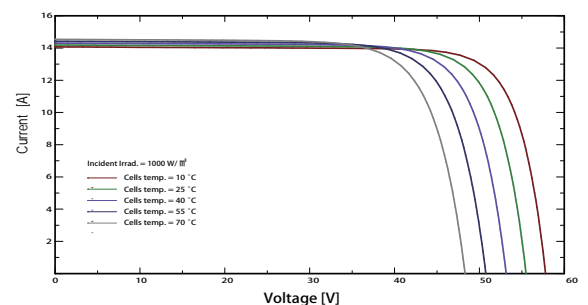
**PACKING MANNER**

Packing Type	40HQ
Piece/Pallet	31
Pallet/Container	16
Piece/Container	496

**I-V/P-V Curve at Different Irradance (620W)**



**I-V Curve at Different Working Temperature (620W)**



\*Power measurement tolerance: ±3%

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