

Swan Plus Bifacial HC 78M 430-450 Watt

MONOCRYSTALLINE MODULE

5Positive power tolerance of 0~+5W

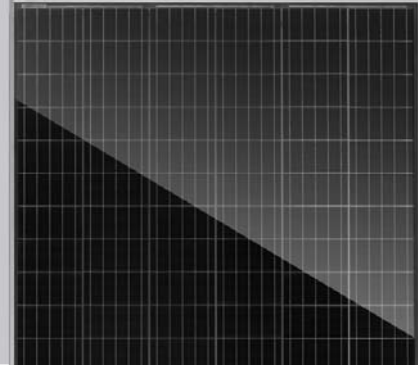
ISO9001:2015、ISO14001:2015、ISO45001:2018
certified factory.

IEC61215、IEC61730 certified products.

(Made in China/Malaysia/U.S)



N-TYPE



KEY FEATURES



N-type HOT Technology

N-type HOT technology makes 20.27% bi-facial module efficiency



5 Busbar Solar Cell

5 busbar solar cell adopts new technology to improve the efficiency of modules, offers a better aesthetic appearance, making it perfect for rooftop installation.



Higher Lifetime Power Yield

Superior Warranty: 30 years performance warranty;
1% First year degradation
0.4% Linear power degradation



Saving BOS Cost

Designed for high voltage systems of up to 1500 VDC, saving BOS cost



Higher power output

Module power increases 5-30% generally (per different reflective condition)
lower LCOE and higher IRR



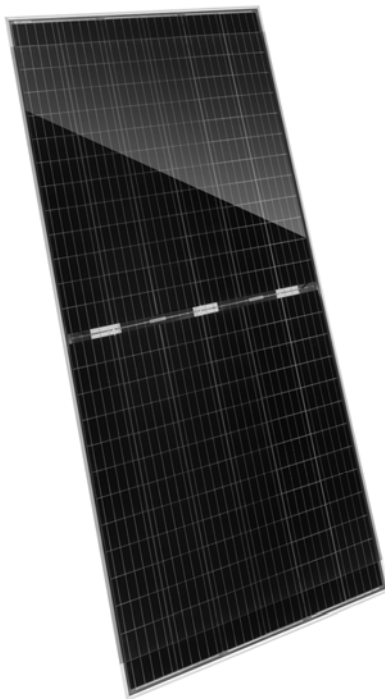
Better low-light performance

Excellent performance in low-light environments
(e.g. early morning, dusk, and cloud, etc.)



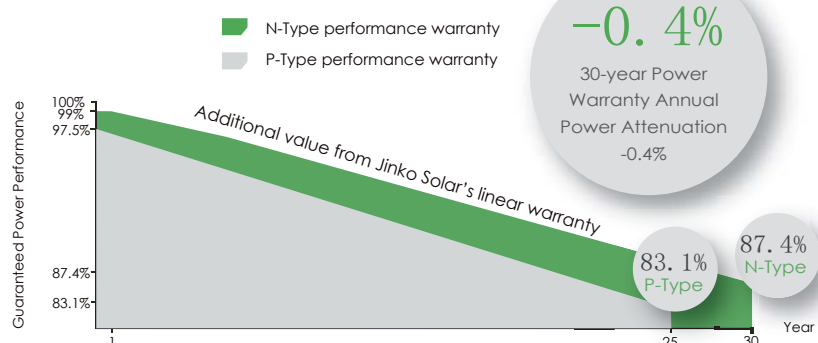
Strengthened Mechanical Support

5400 Pa snow load, 2400 Pa wind load

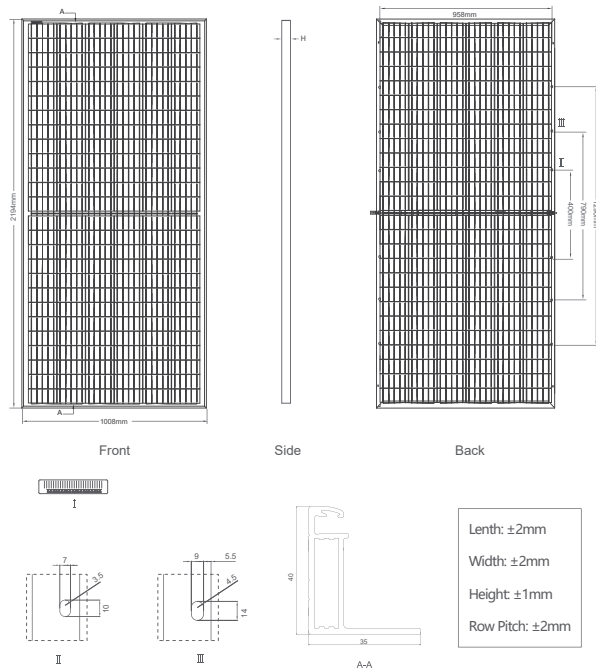


LINEAR PERFORMANCE WARRANTY

15 Year Product Warranty 30 Year Linear Power Warranty
0.4% Annual Degradation Over 30 years



Engineering Drawings

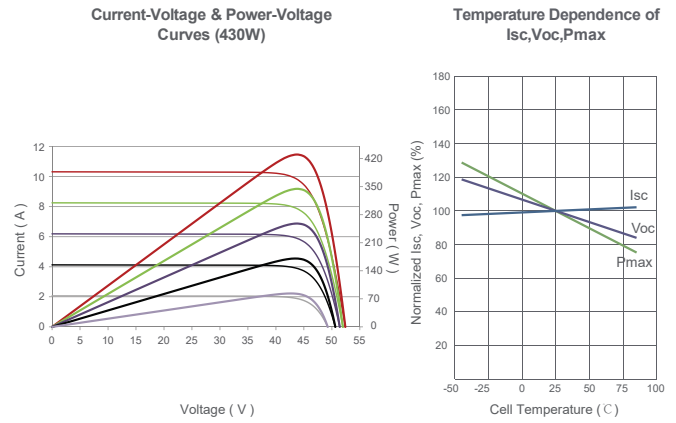


Packaging Configuration

(Two pallets = One stack)

27pcs/pallets, 54pcs/stack, 540pcs/ 40'HQ Container

Electrical Performance & Temperature Dependence



Mechanical Characteristics

Cell Type	Mono PERC 158.75×158.75mm
No. of cells	156 (6x26)
Dimensions	2194×1008×40mm (86.38×39.69×1.57 inch)
Weight	25.1kg (55.34 lbs)
Front Glass	3.2mm, Anti-Reflection Coating, High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP67 Rated
Output Cables	TUV 1×4.0mm ² (+): 250mm, (-): 150 mm or Customized Length
Connector	JK03M/2B, MC4 EV02
Fire Rating	Class C

SPECIFICATIONS

Module Type	JKM430N-78H-TV		JKM435N-78H-TV		JKM440N-78H-TV		JKM445N-78H-TV		JKM450N-78H-TV	
	SCT	NOCT	SCT	NOCT	SCT	NOCT	SCT	NOCT	SCT	NOCT
Maximum Power (Pmax)	430Wp	320Wp	435Wp	324Wp	440Wp	327Wp	445Wp	331Wp	440Wp	335Wp
Maximum Power Voltage (Vmp)	43.00V	39.30V	43.07V	39.42V	43.14V	39.54V	43.21V	39.65V	43.27V	39.76V
Maximum Power Current (Imp)	10.00A	8.14A	10.10A	8.21A	10.20A	8.28A	10.30A	8.35A	10.40A	8.42A
Open-circuit Voltage (Voc)	51.70V	48.70V	51.80V	48.79V	51.90V	48.88V	52.00V	48.98V	52.10V	49.07V
Short-circuit Current (Isc)	10.78A	8.71A	10.87A	8.78A	10.96A	8.85A	11.05A	8.92A	11.14A	9.00A
Module Efficiency STC (%)	19.44%		19.67%		19.90%		20.12%		20.35%	
Operating Temperature(°C)	-40℃~+85℃									
Maximum system voltage	1500VDC (IEC)									
Maximum series fuse rating	20A									
Power tolerance	0~+5W									
Temperature coefficients of Pmax	-0.34%/℃									
Temperature coefficients of Voc	-0.28%/℃									
Temperature coefficients of Isc	0.048%/℃									
Nominal operating cell temperature (NOCT)	45±2℃									
Refer. Bifacial Factor	85±5%									

BIFACIAL OUTPUT-REAR SIDE POWER GAIN

		452Wp	457Wp	462Wp	467Wp	473Wp
5%	Maximum Power (P_{max})	452Wp	457Wp	462Wp	467Wp	473Wp
	Module Efficiency STC (%)	20.42%	20.65%	20.89%	21.13%	21.37%
15%	Maximum Power (P_{max})	495Wp	500Wp	506Wp	512Wp	518Wp
	Module Efficiency STC (%)	22.36%	22.62%	22.88%	23.14%	23.40%
30%	Maximum Power (P_{max})	559Wp	566Wp	572Wp	579Wp	585Wp
	Module Efficiency STC (%)	25.28%	25.57%	25.86%	26.16%	26.45%

* STC: Irradiance 1000W/m² Cell Temperature 25°C

AM=1.5

NOCT: Irradiance 800W/m² Ambient Temperature 20°C

AM=1.5

Wind Speed 1m/s

* Power measurement tolerance: $\pm 3\%$ Voc tolerance: $\pm 3\%$ Isc tolerance: $\pm 4\%$ sorting tolerance: 0~+5W

Jinko Solar Co., Ltd reserves the final right for explanation on any of the information presented hereby. JKM430-450N-78H-TV-A1-EN-For AUSCEC