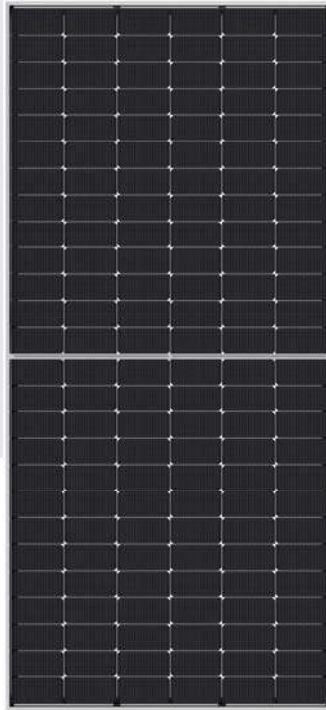


JKM610N-78HL4-BDV

BIFACIAL MODULE WITH DUAL GLASS 590-610 Watt



Key Features



SMBB Technology

Better light trapping and current collection to improve module power output and reliability.



Hot 2.0 Technology

The N-type module with Hot 2.0 technology has better reliability and lower LID/LETID.



PID Resistance

Excellent Anti-PID performance guarantee via optimized mass-production process and materials control.



Enhanced Mechanical Load

Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal).



Durability Against Extreme Environmental Conditions

High salt mist and ammonia resistance.



POSITIVE QUALITY™
Continuous Quality Assurance

Utomo SolaRUV

Jl. Raya Darmo Permai II No.Selatan, Pradahkalikendal, Kec. Dukuhpakis, Kota Surabaya, Jawa Timur, Indonesia, 60187



0819-0116-6000



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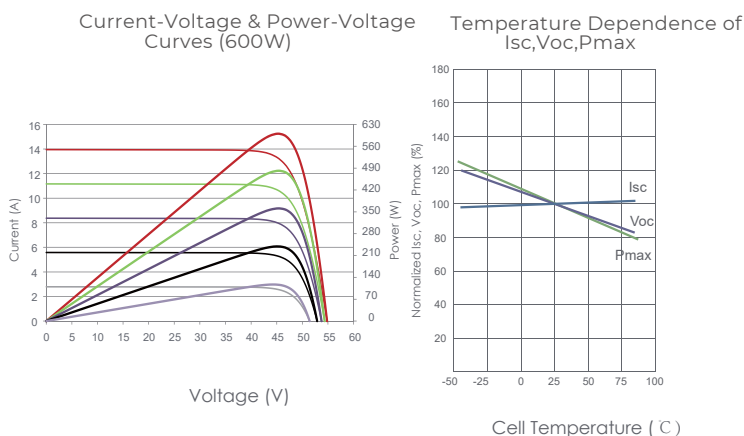
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SPECIFICATIONS											
Module Type	JKM590N-78HL4-BDV		JKM595N-78HL4-BDV		JKM600N-78HL4-BDV		JKM605N-78HL4-BDV		JKM610N-78HL4-BDV		
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	
Maximum Power (Pmax)	590Wp	444Wp	595Wp	447Wp	600Wp	451Wp	605Wp	455Wp	610Wp	459Wp	
Maximum Power Voltage (Vmp)	44.91V	41.89V	45.08V	42.00V	45.25V	42.12V	45.42V	42.23V	45.60V	42.35V	
Maximum Power Current (Imp)	13.14A	10.59A	13.20A	10.65A	13.26A	10.71A	13.32A	10.77A	13.38A	10.83A	
Open-circuit Voltage (Voc)	54.76V	52.02V	54.90V	52.15V	55.03V	52.27V	55.17V	52.41V	55.31V	52.54V	
Short-circuit Current (Isc)	13.71A	11.07A	13.79A	11.13A	13.87A	11.20A	13.95A	11.26A	14.03A	11.33A	
Module Efficiency STC (%)	21.11%		21.29%		21.46%		21.64%		21.82%		
Operating Temperature (°C)	-40°C~+85°C										
Maximum system voltage	1500VDC (IEC)										
Maximum series fuse rating	30A										
Power tolerance	0~+3%										
Temperature coefficients of Pmax	-0.30%/°C										
Temperature coefficients of Voc	-0.25%/°C										
Temperature coefficients of Isc	0.046%/°C										
Nominal operating cell temperature (NOCT)	45±2°C										
Refer. Bifacial Factor	80±5%										

BIFACIAL OUTPUT-REAR SIDE POWER GAIN						
5%	Maximum Power (Pmax)	620Wp	625Wp	630Wp	635Wp	641Wp
	Module Efficiency STC (%)	22.16%	22.35%	22.54%	22.73%	22.91%
15%	Maximum Power (Pmax)	679Wp	684Wp	690Wp	696Wp	702Wp
	Module Efficiency STC (%)	24.27%	24.48%	24.68%	24.89%	25.10%
25%	Maximum Power (Pmax)	738Wp	744Wp	750Wp	756Wp	763Wp
	Module Efficiency STC (%)	26.38%	26.61%	26.83%	27.05%	27.28%

Electrical Performance & Temperature Dependence



Mechanical Characteristics

Cell Type	N type Mono-crystalline
No. of cells	156 (2×78)
Dimensions	2465×1134×35mm (97.05×44.65×1.38 inch)
Weight	34.6kg (76.28 lbs)
Front Glass	2.0mm, Anti-Reflection Coating
Back Glass	2.0mm, Heat Strengthened Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68 Rated
Output Cables	TUV 1×4.0mm ² (+): 400mm, (-): 200mm or Customized Length



JKM565N-72HL4-BDV

BIFACIAL MODULE WITH DUAL GLASS 550-570 Watt



Key Features



SMBB Technology

Better light trapping and current collection to improve module power output and reliability.



Hot 2.0 Technology

The N-type module with Hot 2.0 technology has better reliability and lower LID/LETID.



PID Resistance

Excellent Anti-PID performance guarantee via optimized mass-production process and materials control.



Enhanced Mechanical Load

Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal).



Durability Against Extreme Environmental Conditions

High salt mist and ammonia resistance.



POSITIVE QUALITY™
Continuous Quality Assurance

Utomo SolaRUV

Jl. Raya Darmo Permai II No.Selatan, Pradahkalikendal, Kec. Dukuhpakis, Kota Surabaya, Jawa Timur, Indonesia, 60187



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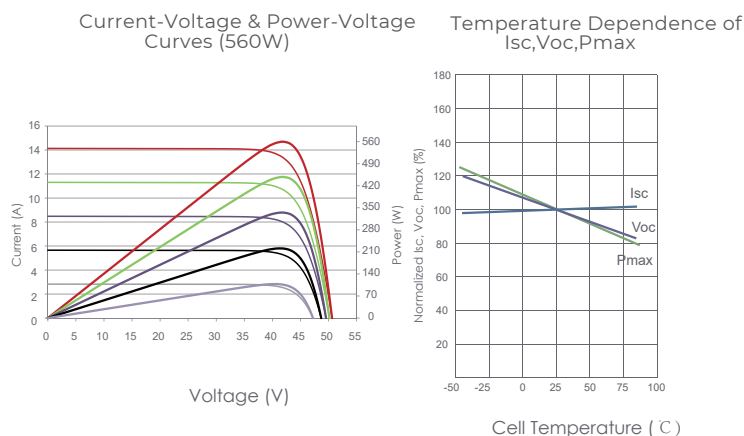
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SPECIFICATIONS											
Module Type	JKM550N-72HL4-BDV		JKM555N-72HL4-BDV		JKM560N-72HL4-BDV		JKM565N-72HL4-BDV		JKM570N-72HL4-BDV		
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	
Maximum Power (Pmax)	550Wp	414Wp	555Wp	417Wp	560Wp	421Wp	565Wp	425Wp	570Wp	429Wp	
Maximum Power Voltage (Vmp)	41.58V	39.13V	41.77V	39.26V	41.95V	39.39V	42.14V	39.52V	42.29V	39.65V	
Maximum Power Current (Imp)	13.23A	10.57A	13.29A	10.63A	13.35A	10.69A	13.41A	10.75A	13.48A	10.81A	
Open-circuit Voltage (Voc)	50.27V	47.75V	50.47V	47.94V	50.67V	48.13V	50.87V	48.32V	51.07V	48.51V	
Short-circuit Current (Isc)	14.01A	11.31A	14.07A	11.36A	14.13A	11.41A	14.19A	11.46A	14.25A	11.50A	
Module Efficiency STC (%)	21.29%		21.48%		21.68%		21.87%		22.07%		
Operating Temperature (°C)	-40°C~+85°C										
Maximum system voltage	1500VDC (IEC)										
Maximum series fuse rating	30A										
Power tolerance	0~+3%										
Temperature coefficients of Pmax	-0.30%/°C										
Temperature coefficients of Voc	-0.25%/°C										
Temperature coefficients of Isc	0.046%/°C										
Nominal operating cell temperature (NOCT)	45±2°C										
Refer. Bifacial Factor	80±5%										

BIFACIAL OUTPUT-REAR SIDE POWER GAIN						
5%	Maximum Power (Pmax)	578Wp	583Wp	588Wp	593Wp	599Wp
	Module Efficiency STC (%)	22.36%	22.56%	22.77%	22.97%	23.17%
15%	Maximum Power (Pmax)	633Wp	638Wp	644Wp	650Wp	656Wp
	Module Efficiency STC (%)	24.48%	24.71%	24.93%	25.15%	25.37%
25%	Maximum Power (Pmax)	688Wp	694Wp	700Wp	706Wp	713Wp
	Module Efficiency STC (%)	26.61%	26.86%	27.10%	27.34%	27.58%

Electrical Performance & Temperature Dependence



Mechanical Characteristics

Cell Type	N type Mono-crystalline
No. of cells	144 (6×24)
Dimensions	2278×1134×30mm (89.69×44.65×1.18 inch)
Weight	32 kg (70.55 lbs)
Front Glass	2.0mm, Anti-Reflection Coating
Back Glass	2.0mm, Heat Strengthened Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68 Rated
Output Cables	TUV 1×4.0mm ² (+): 400mm, (-): 200mm or Customized Length

