

TigerN-Type 7RL3-TV

455-475 Watt

BIFACIAL MODULE WITH TRANSPARENT BACK SHEET

N-Type

Positive power tolerance of 0~+3%

IEC 61215(2016), IEC 61730(2016)

ISO 9001:2015: Quality Management System

ISO 14001:2015: Environment Management System

ISO 45001:2018

Occupational health and safety management systems



Tiling Ribbon Technology

Key Features



Multi Busbar Technology

MBB solar cell adopts new technology to improve the efficiency of modules, offers a better aesthetic appearance.



Hot 2.0 Technology

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



PID Resistance

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



Enhanced Mechanical Load

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



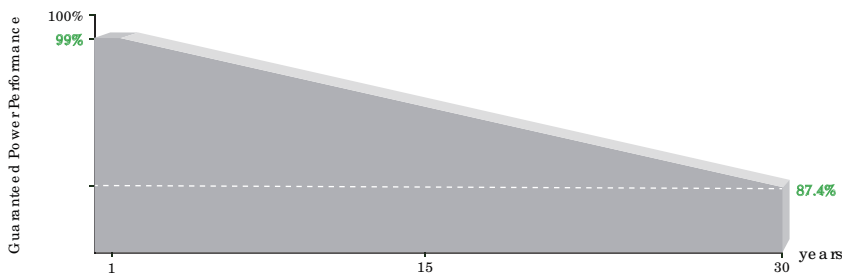
Durability Against Extreme Environmental Conditions

High salt mist and ammonia resistance.



POSITIVE QUALITY™
Continuous Quality Assurance

LINEAR PERFORMANCE WARRANTY

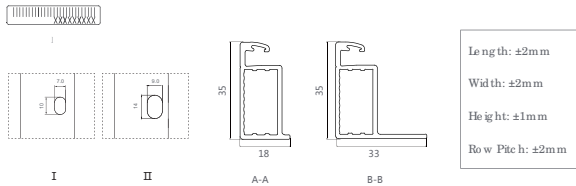
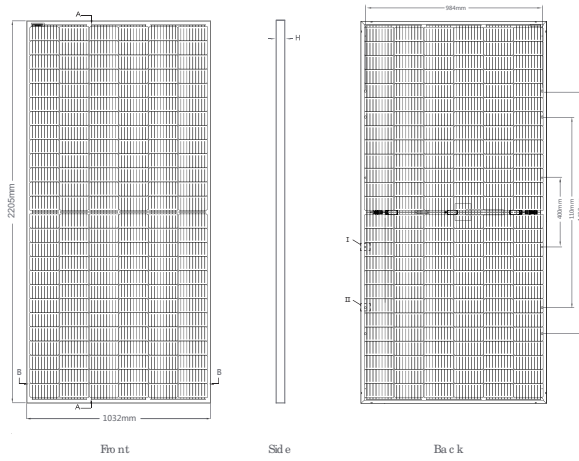


15 Year Product Warranty

30 Year Linear Power Warranty

0.4% Annual Degradation Over 30 years

Engineering Drawings

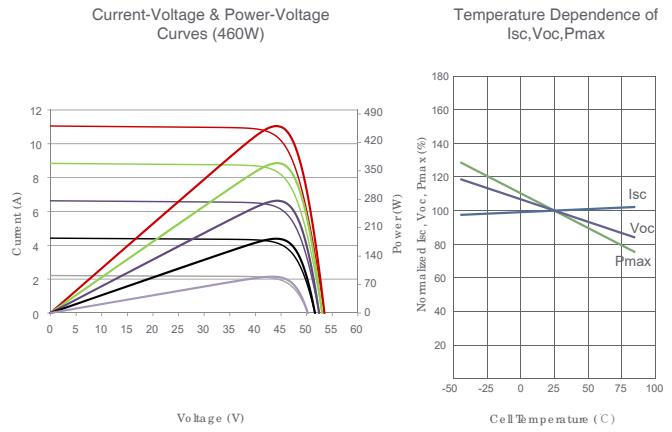


Packaging Configuration

(Two pallets = One stack)

31pc s/pallets, 62pc s/stack, 620pc s/ 40'HQ Container

Electrical Performance & Temperature Dependence



Mechanical Characteristics

Cell Type	N type Mono-crystalline
No. of cells	156 (2×78)
Dimensions	2205×1032×35mm (86.81×40.63×1.38 inch)
Weight	25.0 kg (55.12 lbs)
Front Glass	3.2mm, Anti-Reflection Coating, High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68 Rated
Output Cables	TUV 1×4.0mm ² (+): 290mm, (-): 145mm or Customize Length

SPECIFICATIONS

Module Type	JKM455N-7RL3-IV		JKM460N-7RL3-IV		JKM465N-7RL3-IV		JKM470N-7RL3-IV		JKM475N-7RL3-IV	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	455Wp	339Wp	460Wp	343Wp	465Wp	347Wp	470Wp	350Wp	475Wp	354Wp
Maximum Power Voltage (Vmp)	44.26V	40.78V	44.49V	40.98V	44.71V	41.18V	44.94V	41.37V	45.16V	41.57V
Maximum Power Current (Imp)	10.28A	8.32A	10.34A	8.37A	10.40A	8.42A	10.46A	8.47A	10.52A	8.52A
Open-circuit Voltage (Voc)	53.24V	50.25V	53.47V	50.47V	53.70V	50.69V	53.93V	50.90V	54.16V	51.12V
Short-circuit Current (Isc)	10.99A	8.88A	11.05A	8.92A	11.11A	8.97A	11.17A	9.02A	11.23A	9.07A
Module Efficiency STC (%)	20.00%		20.21%		20.43%		20.65%		20.83%	
Operating Temperature (°C)	-40°C~+85°C									
Maximum System Voltage	1500VDC (IEC)									
Maximum Series Fuse Rating	25A									
Power Tolerance	0~+3%									
Temperature Coefficients of Pmax	-0.34%/°C									
Temperature Coefficients of Voc	-0.28%/°C									
Temperature Coefficients of Isc	0.048%/°C									
Nominal Operating Cell Temperature (NOCT)	45±2°C									
Refer. Bifacial Factor	85±5%									

BIFACIAL OUTPUT REAR SIDE POWER GAIN

		JKM455N-7RL3-IV		JKM460N-7RL3-IV		JKM465N-7RL3-IV		JKM470N-7RL3-IV		JKM475N-7RL3-IV	
		STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
5%	Maximum Power (Pmax)	478Wp	354Wp	483Wp	359Wp	488Wp	364Wp	494Wp	369Wp	499Wp	374Wp
	Module Efficiency STC (%)	20.99%	20.00%	21.23%	20.21%	21.46%	20.43%	21.69%	20.65%	21.92%	20.83%
15%	Maximum Power (Pmax)	523Wp	394Wp	529Wp	399Wp	535Wp	404Wp	541Wp	409Wp	546Wp	414Wp
	Module Efficiency STC (%)	22.99%	21.99%	23.25%	22.25%	23.50%	22.50%	23.75%	22.75%	24.01%	23.01%
30%	Maximum Power (Pmax)	592Wp	444Wp	598Wp	449Wp	605Wp	454Wp	611Wp	459Wp	618Wp	464Wp
	Module Efficiency STC (%)	25.99%	24.99%	26.28%	25.28%	26.56%	25.56%	26.85%	25.85%	27.14%	26.14%

*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