

# TR 72M 510-530 Watt Mono-facial

Tiling Ribbon (TR) Technology

Positive power tolerance of 0~+3%

(Draft)

## TIGER Pro



### KEY FEATURES



#### TR technology + Half Cell

TR technology with Half cell aims to eliminate the cell gap to increase module efficiency (mono-facial up to 21.41%)



#### MBB instead of 5BB

MBB technology decreases the distance between bus bars and finger grid line which is benefit to power increase.



#### Higher lifetime Power Yield

2.0% first year degradation,  
0.55% linear degradation



#### Best Warranty

12 year product warranty,  
25 year linear power warranty



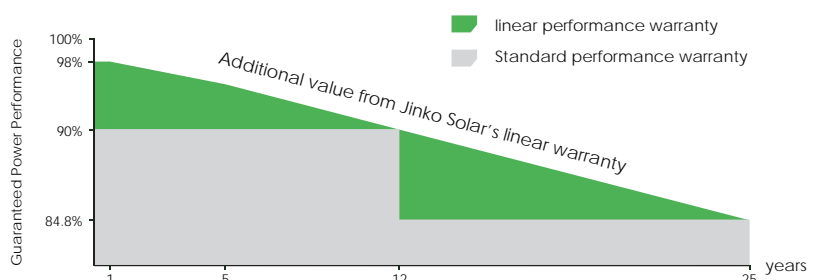
#### Strengthened Mechanical Support

5400 Pa snow load, 2400 Pa wind load



### LINEAR PERFORMANCE WARRANTY

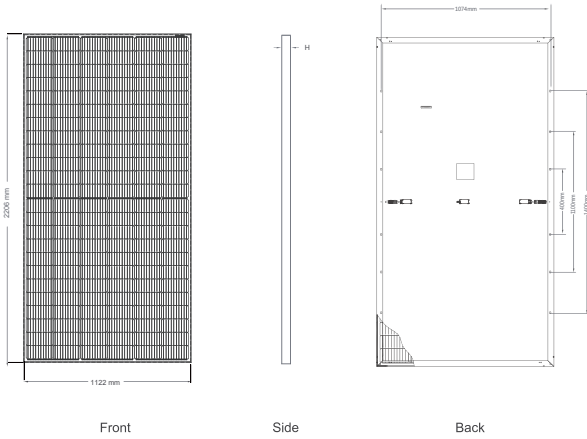
12 Year Product Warranty • 25 Year Linear Power Warranty  
0.55% Annual Degradation Over 25 years



ISO9001:2015, ISO14001:2015, ISO45001:2018 certified factory

IEC61215, IEC61730 certified product

## Engineering Drawings



Front

Side

Back



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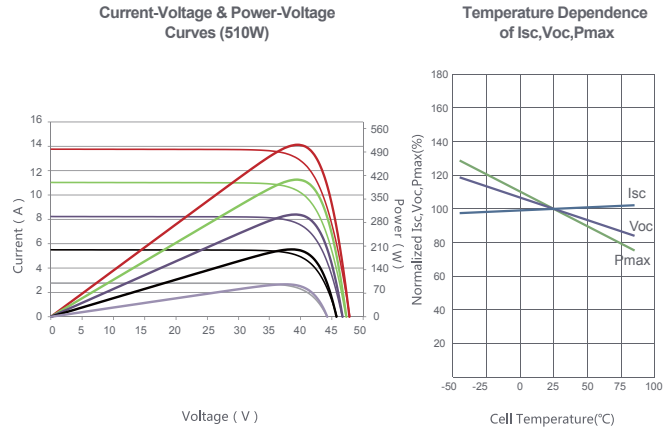
Length: ±2mm  
Width: ±2mm  
Height: ±1mm  
Row Pitch: ±2mm

## Packaging Configuration

( Two pallets = One stack )

31pcs/pallets, 62pcs/stack, 620pcs/ 40'HQ Container

## Electrical Performance & Temperature Dependence



## Mechanical Characteristics

Cell Type	P type Mono-crystalline
No. of cells	144 (2×72)
Dimensions	2206×1122×35mm (86.85×44.17×1.38 inch)
Weight	28.2 kg (62.17 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 <sup>2</sup> (+): 290mm, (-): 145 mm or Customized Length

## SPECIFICATIONS

Module Type	JKM510M-7TL4-V		JKM515M-7TL4-V		JKM520M-7TL4-V		JKM525M-7TL4-V		JKM530M-7TL4-V	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	510Wp	379Wp	515Wp	383Wp	520Wp	387Wp	525Wp	391Wp	530Wp	394Wp
Maximum Power Voltage (Vmp)	41.40V	38.25V	41.50V	38.35V	41.60V	38.46V	41.70V	38.56V	41.80V	38.66V
Maximum Power Current (Imp)	12.32A	9.92A	12.41A	9.99A	12.50A	10.06A	12.59A	10.13A	12.68A	10.20A
Open-circuit Voltage (Voc)	48.94V	46.10V	49.04V	46.19V	49.14V	46.28V	49.24V	46.38V	49.34V	46.47V
Short-circuit Current (Isc)	13.05A	10.54A	13.14A	10.61A	13.23A	10.69A	13.32A	10.76A	13.41A	10.83A
Module Efficiency STC (%)	20.60%		20.81%		21.03%		21.21%		21.41%	
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	-0.35%/°C									
Temperature coefficients of Voc	-0.28%/°C									
Temperature coefficients of Isc	0.048%/°C									
Nominal operating cell temperature (NOCT)	45±2°C									

\* STC: ☀ Irradiance 1000W/m<sup>2</sup> 📏 Cell Temperature 25°C ☁ AM=1.5  
 NOCT: ☀ Irradiance 800W/m<sup>2</sup> 📏 Ambient Temperature 20°C ☁ AM=1.5 🌀 Wind Speed 1m/s

\* Power measurement tolerance: ± 3%