

# Tiger 78TR

## 460-480 Watt

### MONO-FACIAL MODULE

#### P-Type

Positive power tolerance of 0~+3%

IEC61215(2016), IEC61730(2016)

ISO9001:2015: Quality Management System

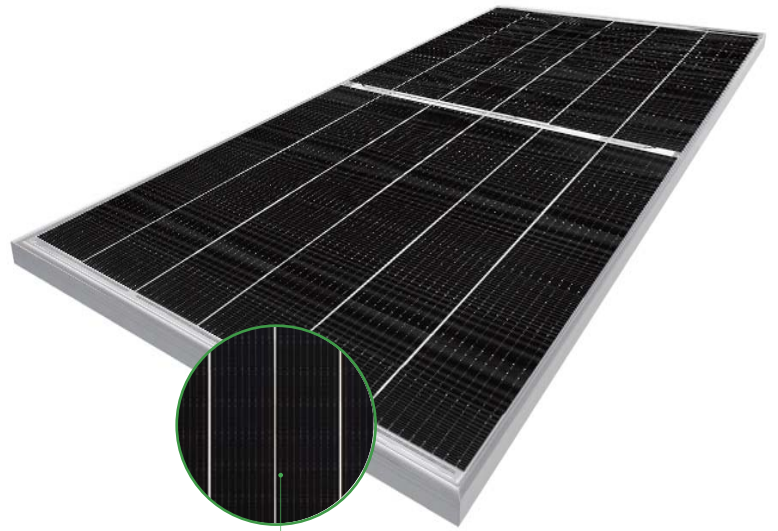
ISO14001:2015: Environment Management System

ISO45001:2018

Occupational health and safety management systems



POSITIVE QUALITY™  
Continuous Quality Assurance



Tiling Ribbon (TR) Technology

## 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 21.38%)



#### 9BB instead of 5BB

9BB technology decreases the distance between bus bars and finger grid line which is benefit to power increase.



#### Higher lifetime Power Yield

2% first year degradation,  
0.55% linear degradation



#### Best Warranty

12 year product warranty,  
25 year linear power warranty



#### Enhanced Mechanical Load

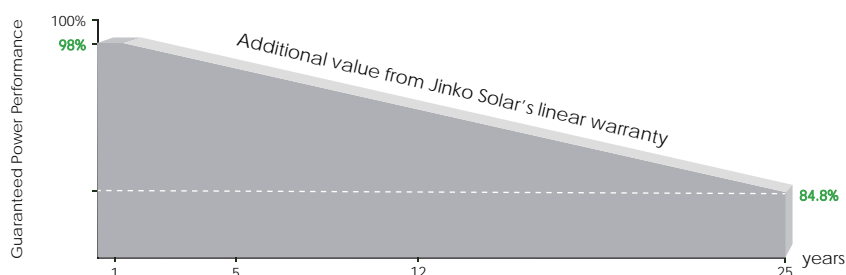
Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal).



#### Avoid debris, cracks and broken gate risk effectively

9BB technology using circular ribbon that could avoid debris, cracks and broken gate risk effectively

## LINEAR PERFORMANCE WARRANTY



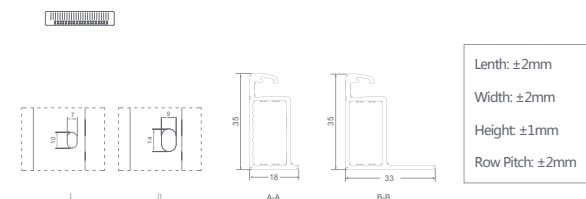
**12** Year Product Warranty

**25** Year Linear Power Warranty

**0.55%** Annual Degradation Over 25 years



## Engineering Drawings



## Packaging Configuration

( Two pallets = One stack )

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

## Electrical Performance & Temperature Dependence

### Current-Voltage & Power-Voltage Curves (460W)

The graph displays the relationship between Voltage (V) and both Current (A) and Power (W) for a 460W system. The x-axis represents Voltage (V) from 0 to 55. The left y-axis represents Current (A) from 0 to 12. The right y-axis represents Power (W) from 0 to 480. There are six I-V curves (colored lines) and one P-V curve (black line). The I-V curves show a linear increase in current with voltage up to a certain point, followed by a sharp drop. The P-V curve shows a peak power of approximately 460W at around 45V.

Cell Temperature (°C)	Isc (%)	Voc (%)	Pmax (%)
-40	100	120	130
0	100	100	100
25	100	100	100
50	100	90	90
75	100	80	80
100	100	70	70

## Mechanical Characteristics

Cell Type	Mono PERC 166×166mm
No. of cells	156(2×78)
Dimensions	2182×1029×35mm (85.91×40.51×1.38 inch)
Weight	25.0kg (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' (+): 290mm , (-): 145mm or Customized Length

## SPECIFICATIONS

\*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

 AM=1.5

 AM=1.5

 Wind Speed 1m/s