

# **ANEXO XXIV**

## **DOCUMENTACIÓN TÉCNICA, MODULO FOTOVOLTAICO**

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### **PROYECTO DE AUTOCONSUMO PARA MEJORA DEL APROVECHAMIENTO ENERGÉTICO EN EL RIEGO PARA LA SOCIEDAD AGRARIA SAT LOS GUIRAOS EN CUEVAS DE ALMANZORA (ALMERÍA).**

**PROMOTOR: SEIASA**

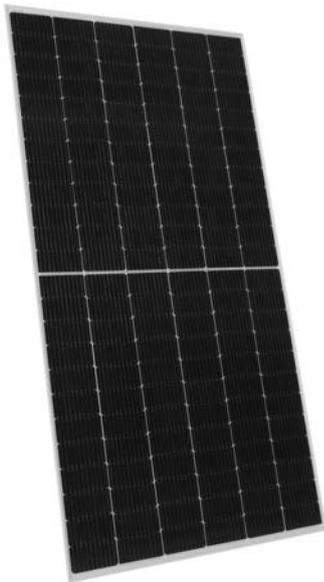
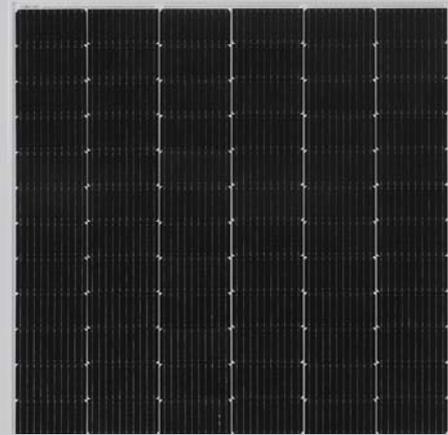
**SITUACIÓN: BARRIADA DE LOS GUIRAOS DE  
GUAZAMARA, CUEVAS DEL  
ALMANZORA (ALMERÍA).**

# TR 72M 520-540 Watt Mono-facial

Tiling Ribbon (TR) Technology

Positive power tolerance of 0~+3%

## 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 21.35 %)



#### 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



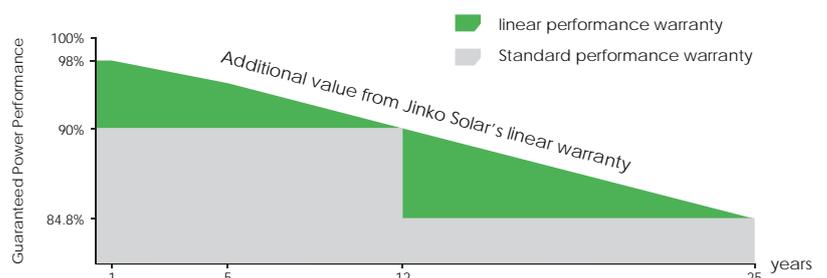
#### Strengthened Mechanical Support

5400 Pa snow load, 2400 Pa wind load



### LINEAR PERFORMANCE WARRANTY

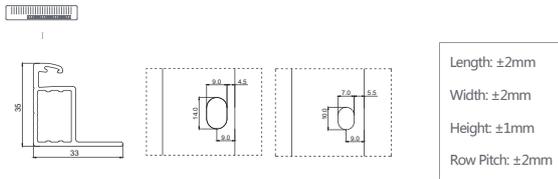
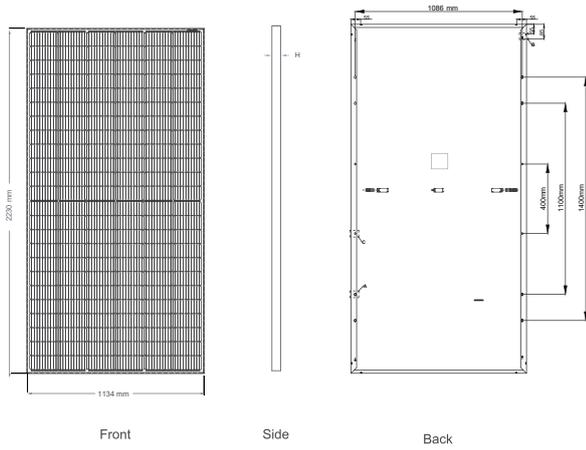
12 Year Product Warranty • 25 Year Linear Power Warranty  
0.55% Annual Degradation Over 25 years



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

IEC61215, IEC61730 certified product

## Engineering Drawings

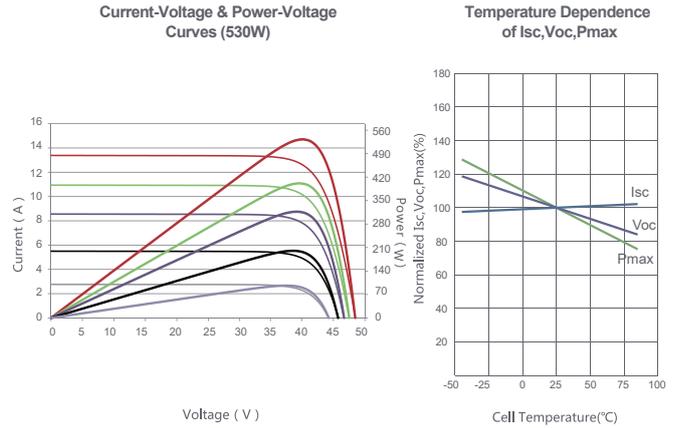


## Packaging Configuration

( 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    | 2230×1134×35mm (87.80×44.65×1.38 inch)                                      |
| Weight        | 28.9 kg (63.71 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 <sup>2</sup><br>(+): 290mm, (-): 145 mm or Customized Length    |

## SPECIFICATIONS

| Module Type                               | JKM520M-7TL4-V |        | JKM525M-7TL4-V |        | JKM530M-7TL4-V |        | JKM535M-7TL4-V |        | JKM540M-7TL4-V |        |
|---|----------------|--------|----------------|--------|----------------|--------|----------------|--------|----------------|--------|
|   | STC            | NOCT   |
| Maximum Power (Pmax)                      | 520Wp          | 387Wp  | 525Wp          | 391Wp  | 530Wp          | 394Wp  | 535Wp          | 398Wp  | 540Wp          | 402Wp  |
| Maximum Power Voltage (Vmp)               | 40.47V         | 37.63V | 40.61V         | 37.78V | 40.74V         | 37.92V | 40.88V         | 38.05V | 41.01V         | 38.19V |
| Maximum Power Current (Imp)               | 12.85A         | 10.28A | 12.93A         | 10.34A | 13.01A         | 10.40A | 13.09A         | 10.46A | 13.17A         | 10.52A |
| Open-circuit Voltage (Voc)                | 48.99V         | 46.24V | 49.13V         | 46.37V | 49.26V         | 46.50V | 49.40V         | 46.63V | 49.53V         | 46.75V |
| Short-circuit Current (Isc)               | 13.53A         | 10.93A | 13.61A         | 10.99A | 13.69A         | 11.06A | 13.77A         | 11.12A | 13.85A         | 11.19A |
| Module Efficiency STC (%)                 | 20.56%         |        | 20.76%         |        | 20.96%         |        | 21.16%         |        | 21.35%         |        |
| 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