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# **EnergyPal**

## **Solar Panel Guide Specification Data Sheet**

**Zhejiang TTN Electric Co., Ltd.**

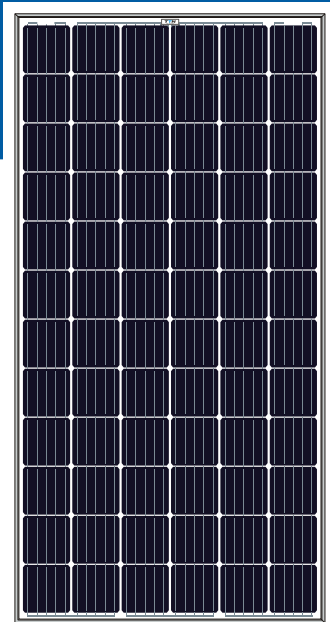
**TTN-190-205M72**

**TTN-M205W-72**

Also available on the web at  
[EnergyPal.com/zhejiang-ttn-electric-co-ltd-solar-panels/ttn-m205w-72](http://EnergyPal.com/zhejiang-ttn-electric-co-ltd-solar-panels/ttn-m205w-72)

# TTN-190-205M72

Monocrystalline Solar Module



## APPLICATIONS

- Large terrestrial power station
- Industrial and commercial roof power generation
- Residential roof
- Off grid solar power system

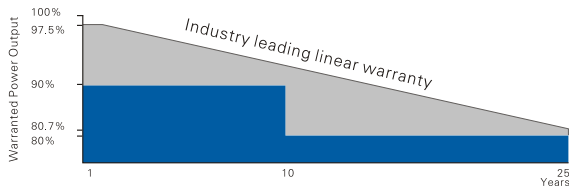


**72** CELL Series

**10** YEAR Product Warranty

**25** YEARS Linear Warranty

## Premium Performance Warranty

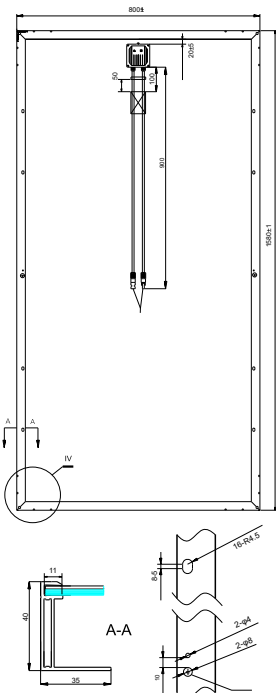


## Electrical data

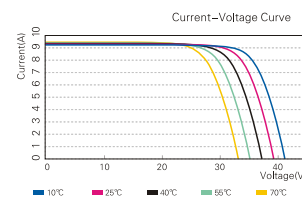
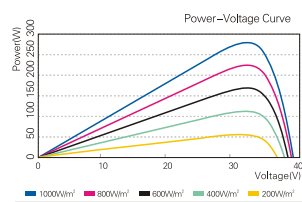
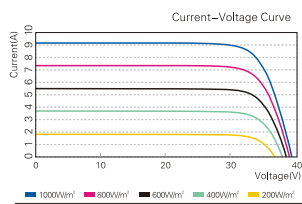
|                                | 190Wp          | 195Wp  | 200Wp  | 205Wp  |
|--------------------------------|----------------|--------|--------|--------|
| Nominal Power Watt Pmax(Wp)    | 190Wp          | 195Wp  | 200Wp  | 205Wp  |
| Power Output Tolerance Pmax(W) | 0/+5           | 0/+5   | 0/+5   | 0/+5   |
| Maximum Power Voltage Vmp(V)   | 37.19V         | 37.81V | 38.53V | 38.97V |
| Maximum Power Current Imp(A)   | 5.11A          | 5.16A  | 5.21A  | 5.26A  |
| Open Circuit Voltage Voc(V)    | 44.63V         | 45.35V | 46.22V | 46.77V |
| Short Circuit Current Ioc(A)   | 6.13A          | 6.19A  | 6.71A  | 6.77A  |
| Module Efficiency $\eta$ (%)   | 15.03%         | 15.42% | 15.82% | 16.21% |
| Maximum system voltage         | 1000V          |        |        |        |
| Operating temperature          | -40°C to +85°C |        |        |        |
| NOCT                           | 45°C to ± 2°C  |        |        |        |
| Temperature coefficient of Isc | +0.05%/°C      |        |        |        |
| Temperature coefficient of Voc | -0.34%/°C      |        |        |        |
| Temperature coefficient of Pm  | -0.42%/°C      |        |        |        |

Specifications included in this datasheet are subject to change without prior notice

## Dimensions



## Curve chart



## Mechanical data

|                   |                                                               |
|-------------------|---------------------------------------------------------------|
| Solar cells       | Mono 125x125mm                                                |
| Cells orientation | 72(6x12)                                                      |
| Module dimension  | 1580mmx800mmx35mm                                             |
| Weight            | 15kg                                                          |
| Glass             | High transparency, low iron, tempered glass 3.2mm(AR-coating) |
| Junction box      | 8Ax9 diodes                                                   |
| Cables            | 2.5 mm <sup>2</sup> , 900mm                                   |
| Connectors        | MC4-compatible                                                |

Established in 1994