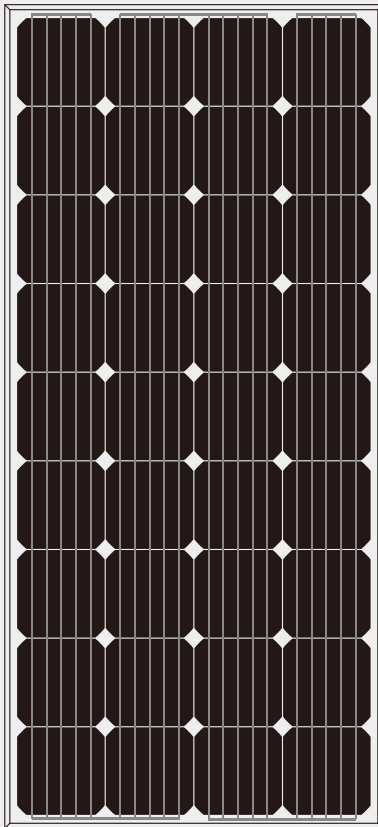





## TS-190M-36 Monocrystalline 36 cells 170w-190w





### Key Features


- 

Widely using of the most popular and mature type of modules for off-grid system
- 

High power output and highest conversion efficiency of 16.51%
- 

Anti-reflective and anti-soiling surface reduces power loss from dirt and dust
- 

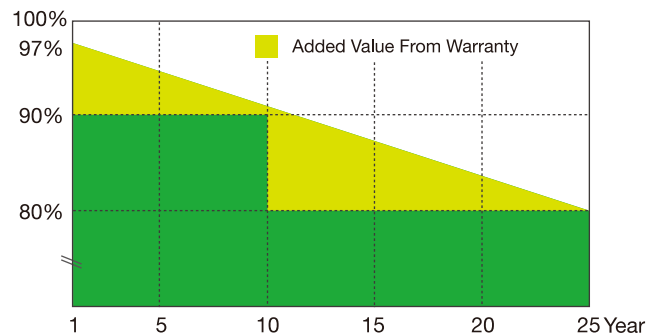
Outstanding performance in low-light irradiance environments
- 

Excellent mechanical load resistance: Certified to withstand high wind loads (2400Pa) and snow loads (5400Pa)
- 

High salt and ammonia resistance certified by TÜV NORD

### Superior Warranty

- 10-year product warranty
- 25-year linear power output warranty



### Reliable Quality

- Positive power tolerance: 0~+5W
- 100% EL double-inspection ensures modules are defects free
- Modules binned by current to improve system performance
- Potential Induced Degradation (PID) Resistant

# TS-190M-36

## Monocrystalline 36 cells 170w-190w

# TracksunSolar, For our Future!

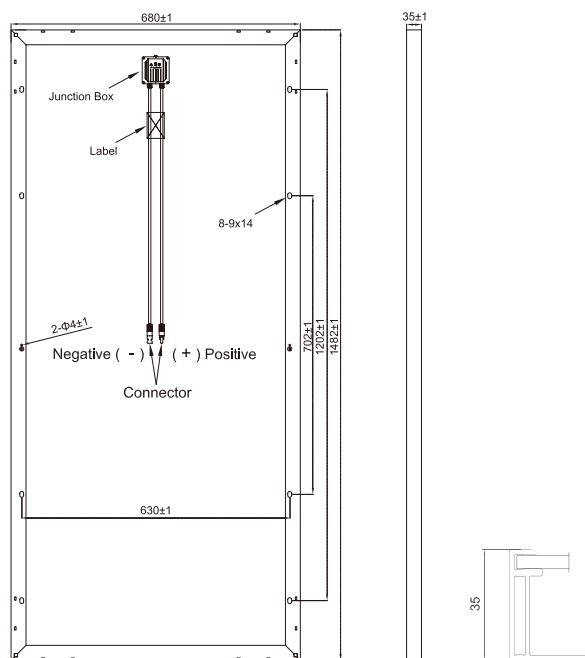
### Mechanical Parameters

Cell (mm)	Mono 156×156
Weight (kg)	12 (approx)
Glass Thickness	4 / 3.2mm
Dimensions (L×W×H) (mm)	1480×680×35
Cable Cross Section Size (mm <sup>2</sup> )	4
No. of Cells and Connections	36(4x9)
Junction Box	IP67
Connector	MC4 Compatible
Packaging Configuration	Per Pallet

### Working Conditions

Maximum System Voltage	DC 1000V (IEC)
Operating Temperature	-40°C~+85°C
Maximum Series Fuse	15A
Maximum Static Load, Front (e.g., snow and wind)	5400Pa (112 lb/ft <sup>2</sup> )
Maximum Static Load, Back (e.g., wind)	2400Pa (50 lb/ft <sup>2</sup> )
NOCT	45±2°C
Application Class	Class A

### Engineering Drawings



### Electrical Parameters

Module	TS-170M-36	TS-175M-36	TS-180M-36	TS-185M-36	TS-190M-36
Rated Maximum Power at STC (W)	170	175	180	185	190
Open Circuit Voltage (Voc/V)	22.80	22.90	23.00	23.10	23.20
Maximum Power Voltage (Vmp/V)	17.90	18.00	18.10	18.20	18.30
Short Circuit Current (Isc/A)	9.74	9.98	10.23	10.46	10.70
Maximum Power Current (Imp/A)	9.50	9.72	9.94	10.16	10.38
Module Efficiency [%]	17.08	17.58	18.09	18.59	19.09
Power Tolerance (W)			-0~+5W		
Temperature Coefficient of Isc (αIsc)			+0.059%/°C		
Temperature Coefficient of Voc (βVoc)			-0.330%/°C		
Temperature Coefficient of Pmax (γPmp)			-0.410%/°C		
STC	Irradiance 1000W/m <sup>2</sup> , Cell Temperature 25°C, Air Mass 1.5				

### I-V Curve

