

**ECWAT SOLAR,
For Our Future!**

SUPER QUALITY
HIGH EFFICIENCY
STRONG POWER



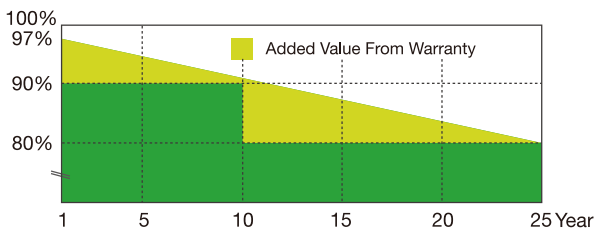
TS-380M-72/Monocrystalline 72 cells 355w-380w

1 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

2 Superior Warranty

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



3 Key features

- Monocrystalline modules designed for commercial and solar farm grid-tied applications
- High power output and highest conversion efficiency
- 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

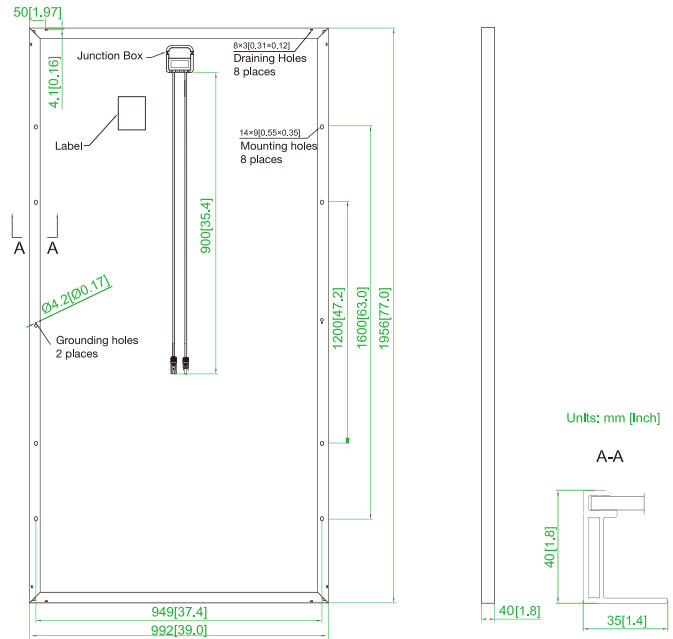
Mechanical Parameters

Cell (mm)	Mono 156x156
Weight (kg)	21 (approx)
Glass Thickness	4 / 3.2mm
Dimensions (LxWxH) (mm)	1956x992x40
Cable Cross Section Size (mm ²)	4
No. of Cells and Connections	72 (6x12)
Junction Box	IP67
Connector	MC4 Compatible
Packaging Configuration	23 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 ²)
Maximum Static Load, Back (e.g., wind)	2400Pa (50 lb/ft ²)
NOCT	45±2°C
Application Class	Class A

Engineering Drawings



Electrical Parameters

Module	TS-355M-72	TS-360M-72	TS-365M-72	TS-370M-72	TS-375M-72	TS-380M-72
Peak Power Watts-P _{MAX} (Wp)*	355	360	365	370	375	380
Power Output Tolerance-P _{MAX} (W)	0 ~ +5					
Maximum Power Voltage-V _{MPP} (V)	38.7	39.01	39.38	39.40	39.45	39.55
Maximum Power Current-I _{MPP} (A)	9.17	9.23	9.27	9.41	9.51	9.61
Open Circuit Voltage-V _{OC} (V)	47.0	47.44	47.67	47.81	47.93	48.06
Short Circuit Current-I _{SC} (A)	9.69	9.77	9.84	9.89	9.95	10.11
Module Efficiency η _m (%)	18.3	18.6	18.8	19.1	19.3	19.6
Temperature Coefficient of I _{sc} (αI _{sc})	+0.058%/°C					
Temperature Coefficient of V _{oc} (βV _{oc})	-0.330%/°C					
Temperature Coefficient of P _{max} (γP _{mp})	-0.410%/°C					

STC Irradiance 1000W/m², Cell Temperature 25°C, Air Mass 1.5

I-V Curve

