

HIGH PERFORMANCE MODULES

TM-SERIES 70 Wp

HIGH PERFORMANCE POLYCRYSTALLINE PANELS



13,59%

EFFICIENCY

25
years

EUROPEAN
GUARANTEE



TOLERANCE
0/+3%



CERTIFIED
WIND/SNOW



WEAK LIGHT

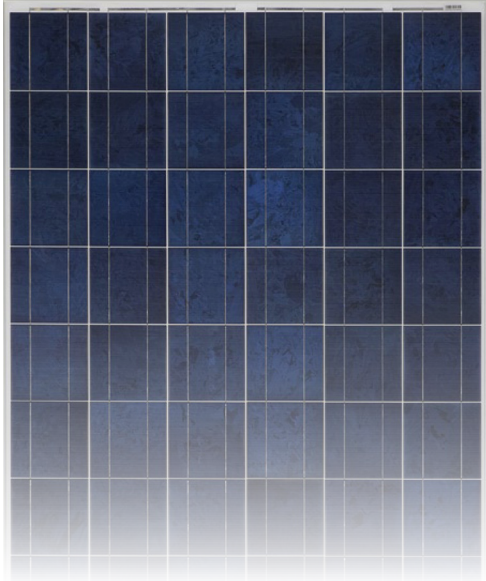


THIRD PARTY
WARRANTY

TM-P636070

TM-P636070

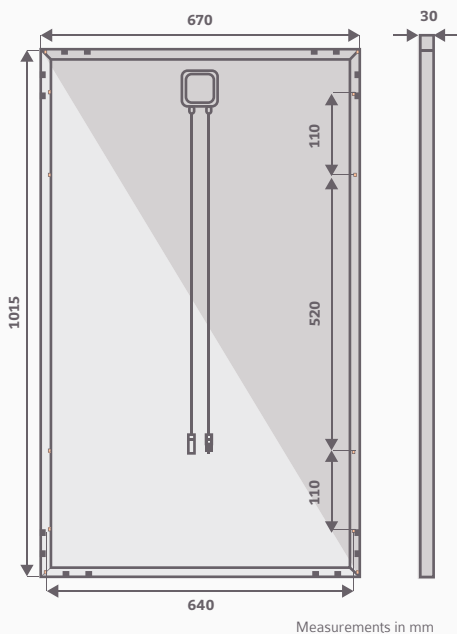
TM-SERIES POLYCRYSTALLINE



FEATURES

- ✓ High module conversion **efficiency** up to 13.59%, through superior manufacturing technology.
- ✓ **Guaranteed 0/+3%** power tolerance.
- ✓ **Robust and corrosion free modules.** Entire module certificate to withstand high wind loads (2400Pa).
- ✓ **Excellent performance** under low light environment.
- ✓ **International certificates** to ensure the best quality and performance.
- ✓ Manufacturing process certified under the **ISO 9001 standards**.
- ✓ **Enhanced design** for easy installation and long term reliability.

MODULE ENGINEERING DRAWING



WARRANTY

European Warranty.

See warranty conditions for further details.

1. +2 years product warranty extension.
2. Power output decrease yearly. Year 25 rated power output not below 80%.

10+2
years product
warranty¹

13.59%
efficiency

25
years power
warranty²

ELECTRICAL DATA STC	TM P636070
Nominal Maximum Power (P _{max})	70 W
Optimum Operating Voltage (V _{mp})	17.64 V
Optimum Operating Current (I _{mp})	4.12 A
Open Circuit Voltage (V _{oc})	22.47 V
Short Circuit Current (I _{sc})	4.76 A
Module efficiency	13.59%
Power Tolerance	0/+3%
Max. system voltage	1000 V (IEC) / 600 (UL)
Max. series fuse rating	5 A
Operating temperature range	-40°C to +85°C

Electric characteristics at standard conditions (STC)

STC conditions: Irradiance: 1.000W/m², cell temperature: 25°C, AM=1.5

ELECTRICAL DATA NOCT	TM P636070
Nominal Maximum Power (P _{max})	51 W
Optimum Operating Voltage (V _{mp})	16.12 V
Optimum Operating Current (I _{mp})	3.29 A
Open Circuit Voltage (V _{oc})	20.63 V
Short Circuit Current (I _{sc})	3.87 A

Electric characteristics at normal operation conditions (NOCT)

NOCT conditions: 800W/m², ambient temperature: 20°C, AM=1.5, wind speed: 1m/s

MECHANICAL CHARACTERISTICS

Solar cells	Polycrystalline silicon 105x156 mm
Cell arrangement	36 cells in series
Dimensions	1015x670x30 mm
Weight	6 kg
Max static load, front (snow)	5400 Pa
Max static load, back (wind)	2400 Pa
Front cover	Low-iron tempered glass 3.2 mm
Frame	Anodized aluminum alloy
Encapsulant	EVA (ethylene vinyl acetate)
Junction box	IP65
Bypass diodes	2
Cables (length/ area)	1000 mm / 4 mm ² (IEC) 12AWG (UL)
Connectors	MC4

TEMPERATURE RATINGS

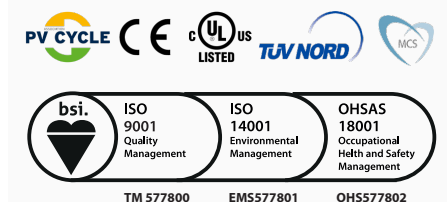
NOCT	45 ± 2 °C
Temperature coefficient of (P _{max})	-0.47 %/°C
Temperature coefficient of (V _{oc})	-0.34 %/°C
Temperature coefficient of (I _{sc})	+0.045 %/°C

PACKAGING

Modules per package	2
Nº packages per HC container (40')	1350

The max capacity per container are 2700 modules

CERTIFICATIONS



TM 577800 EM5577801 OHS577802



Tamesol

ENERGÍA

PARA VIVIR

Tamesol is a photovoltaic modules manufacturer founded in 2005. Our headquarters are located in Girona (Spain), and our main production lines are in China, Malaysia and Turkey. Spain, Italy, Brazil, Romania, Germany, United Kingdom and United States are among the countries where Tamesol has participated as a supplier.

Tamesol's staff are highly qualified professionals with extensive experience in the photovoltaic technology area.

**More than 105.000 families
rely on us already.**

