

# HIGH PERFORMANCE MODULES

## TM-SERIES 100 Wp

### HIGH PERFORMANCE POLYCRYSTALLINE PANELS



**EFFICIENCY**



**EUROPEAN  
GUARANTEE**



**TOLERANCE  
0/+3%**



**CERTIFIED  
WIND/SNOW**



**WEAK LIGHT**

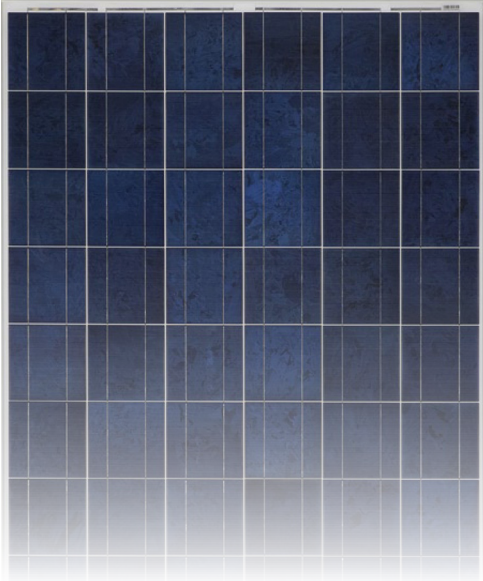


**THIRD PARTY  
WARRANTY**

**TM-P636100**

# TM-P636100

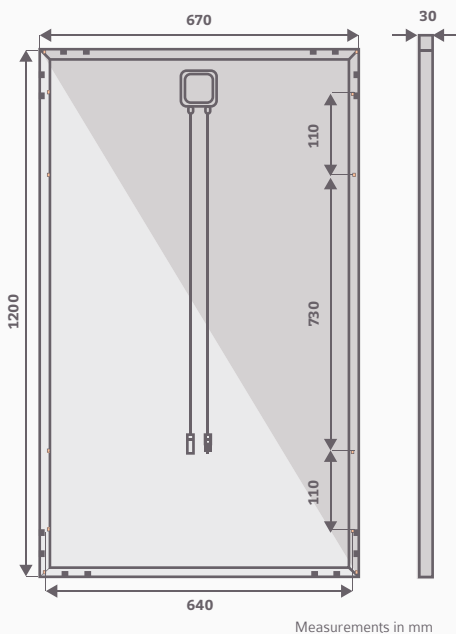
## TM-SERIES POLYCRYSTALLINE



### FEATURES

- ✓ High module conversion **efficiency** up to 12.75%, 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

10+2  
years product  
warranty\*

12.75%  
efficiency

25  
years power  
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%.

### ELECTRICAL DATA STC

	TM P636100
Nominal Maximum Power (P <sub>max</sub> )	100 W
Optimum Operating Voltage (V <sub>mp</sub> )	17.50 V
Optimum Operating Current (I <sub>mp</sub> )	5.56 A
Open Circuit Voltage (V <sub>oc</sub> )	21.60 V
Short Circuit Current (I <sub>sc</sub> )	6.06 A
Module efficiency	12.75%
Power Tolerance	0/+3%
Max. system voltage	1000 V (IEC) / 600 (UL)
Max. series fuse rating	10 A
Operating temperature range	-40°C to +85°C

Electric characteristics at standard conditions (STC)

STC conditions: Irradiance: 1.000W/m<sup>2</sup>, cell temperature: 25°C, AM=1.5

### ELECTRICAL DATA NOCT

	TM P636100
Nominal Maximum Power (P <sub>max</sub> )	73 W
Optimum Operating Voltage (V <sub>mp</sub> )	15.99 V
Optimum Operating Current (I <sub>mp</sub> )	4.43 A
Open Circuit Voltage (V <sub>oc</sub> )	19.83 V
Short Circuit Current (I <sub>sc</sub> )	4.93 A

Electric characteristics at normal operation conditions (NOCT)

NOCT conditions: 800W/m<sup>2</sup>, ambient temperature: 20°C, AM=1,5, wind speed: 1m/s

### MECHANICAL CHARACTERISTICS

Solar cells	Polycrystalline silicon 130x156 mm
Cell arrangement	36 cells in series
Dimensions	1200x670x30 mm
Weight	8 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 <sup>2</sup> (IEC) 12AWG (UL)
Connectors	MC4

### TEMPERATURE RATINGS

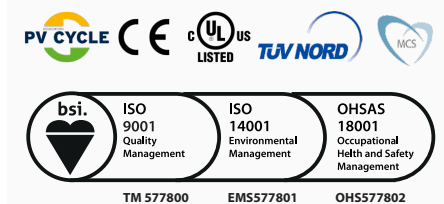
NOCT	45 ± 2°C
Temperature coefficient of (P <sub>max</sub> )	-0.47 %/°C
Temperature coefficient of (V <sub>oc</sub> )	-0.34 %/°C
Temperature coefficient of (I <sub>sc</sub> )	+0.045%/°C

### PACKAGING

Modules per package	2
N° packages per HC container (40')	1350

The max capacity per container are 2700 modules

### CERTIFICATIONS



# 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.**

