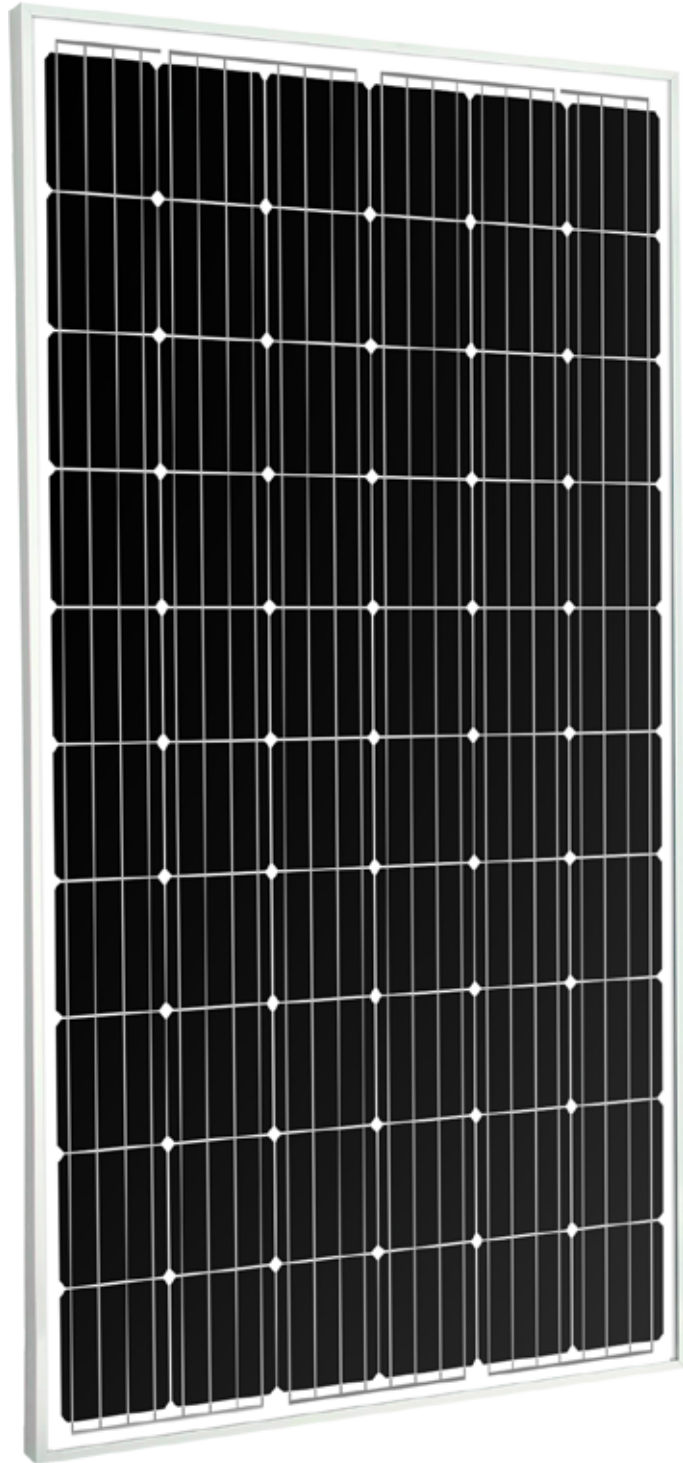


# TM-Series

## TM-M660280/300

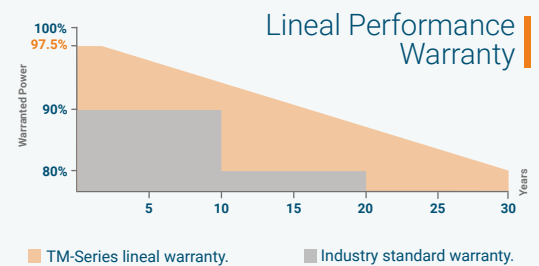


Monocrystalline  
Solar Panels

280-300W  
Power Range

18.3%  
Efficiency

0/+5W  
Tolerance



10 YEARS PRODUCT · 30 YEARS POWER

### Key Features



**High PID resistant**  
TM-Series has proved resistance to degradation induced power.



**Advanced glass**  
High transmission glass resulting in increased energy production.



**High efficiency and durability**  
Manufacturing process certified, excellent performance under low light environments.

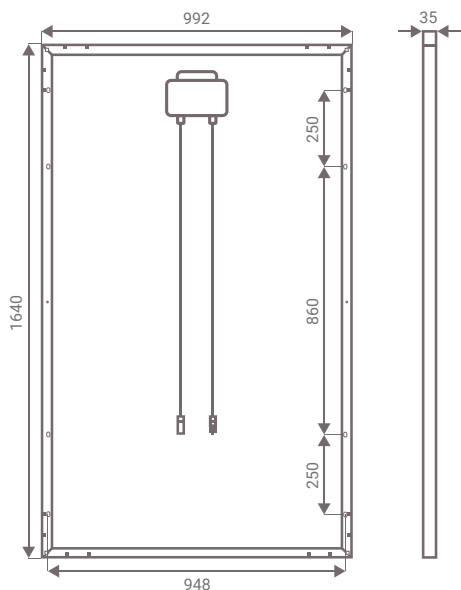


**Robust and corrosion free modules**  
Certified to withstand the most challenging environmental conditions.

# TM-M660280/300

MONOCRYSTALLINE PV MODULES

# TM-Series



## ELECTRICAL DATA

STC	TM M660280	TM M660285	TM M660290	TM M660295	TM M660300
Maximum Power at STC (Pmax)	280 W	285 W	290 W	295 W	300 W
Optimum Operating Voltage (Vmp)	32.01 V	32.23 V	32.46 V	32.50 V	32.60 V
Optimum Operating Current (Imp)	8.75 A	8.84 A	8.93 A	9.08 A	9.19 A
Open Circuit Voltage (Voc)	39.23 V	39.50 V	39.79 V	39.80 V	39.90 V
Short Circuit Current (Isc)	9.38 A	9.48 A	9.58 A	9.68 A	9.77 A
Module Efficiency	17.10 %	17.40 %	17.70 %	18 %	18.30 %

Electric characteristics at normal standard conditions (STC)  
STC Conditions: Irradiance: 1.000W/m<sup>2</sup>, cell temperature: 25°C, AM=1.5

NOCT	TM M660280	TM M660285	TM M660290	TM M660295	TM M660300
Maximum Power at NOCT (Pmax)	206 W	210 W	214 W	220 W	223 W
Optimum Operating Voltage (Vmp)	29.61 V	29.81 V	30.03 V	30.02 V	30.40 V
Optimum Operating Current (Imp)	6.97 A	7.05 A	7.12 A	7.28 A	7.35 A
Open Circuit Voltage (Voc)	36.21 V	36.46 V	36.72 V	36.90 V	37.10 V
Short Circuit Current (Isc)	7.55 A	7.63 A	7.71 A	7.71 A	7.78 A

Electric characteristics at normal operation conditions (NOCT)  
NOCT Conditions: Irradiance: 800W/m<sup>2</sup>, ambient temperature: 20°C, AM=1.5, wind speed: 1m/s

## GENERAL CHARACTERISTICS

Dimensions	1640x992x35 mm
Weight	19 Kg

## PACKAGING

Modules per Pallet	26
N° pallets per HC Container 40'	28

The max capacity per container are 784 modules

## TEMPERATURE RATING

NOCT	45 ± 2° C
Coefficient of (Pmax)	-0.48 %/°C
Coefficient of (Voc)	-0.34 %/°C
Coefficient of (Isc)	+0.037 %/°C

## CERTIFICATIONS



IEC 61215, IEC 61730, ISO 9001:2008, ISO 14001:2004, BS OHSAS 18001:27, PV Cycle, MCS, PID, WEEE.

## OPERATIVE CONDITIONS

Power Tolerance	0/+5W
Max. System Voltage	1.000 V (IEC) / 600 (UL)
Max. Series Fuse Rating	15 A
Operating Temperature Range	-40° C to 85 °C
Max. Static Load, Front (Snow)	5400 Pa
Max. Static Load, Back (Wind)	2400 Pa
Fire Rating	Class A

## MECHANICAL CHARACTERISTICS

Solar Cells	Monocrystalline silicon 156x156 mm
Cell Arrangement	60 cells in series
Front Cover	Low-iron tempered glass 3.2 mm
Frame	Anodized aluminum alloy
Encapsulant	EVA (ethylene vinyl acetate)
Junction Box	IP67
Bypass Diodes	3
Cables (length/area)	1000 mm / 4 mm <sup>2</sup> (IEC), 12 AWG (UL)
Connectors	MC4

**Caution:**  
To operate, install and manage Tamesol's modules, read the installation manual and use carefully.

**Observations:**  
This Datasheet is subject to change without notice due to continuous improvement of our products. You can find all records of the updates on our website [www.tamesol.com](http://www.tamesol.com) or by contacting one of our sales staff. All rights reserved ©Tamesol ®

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