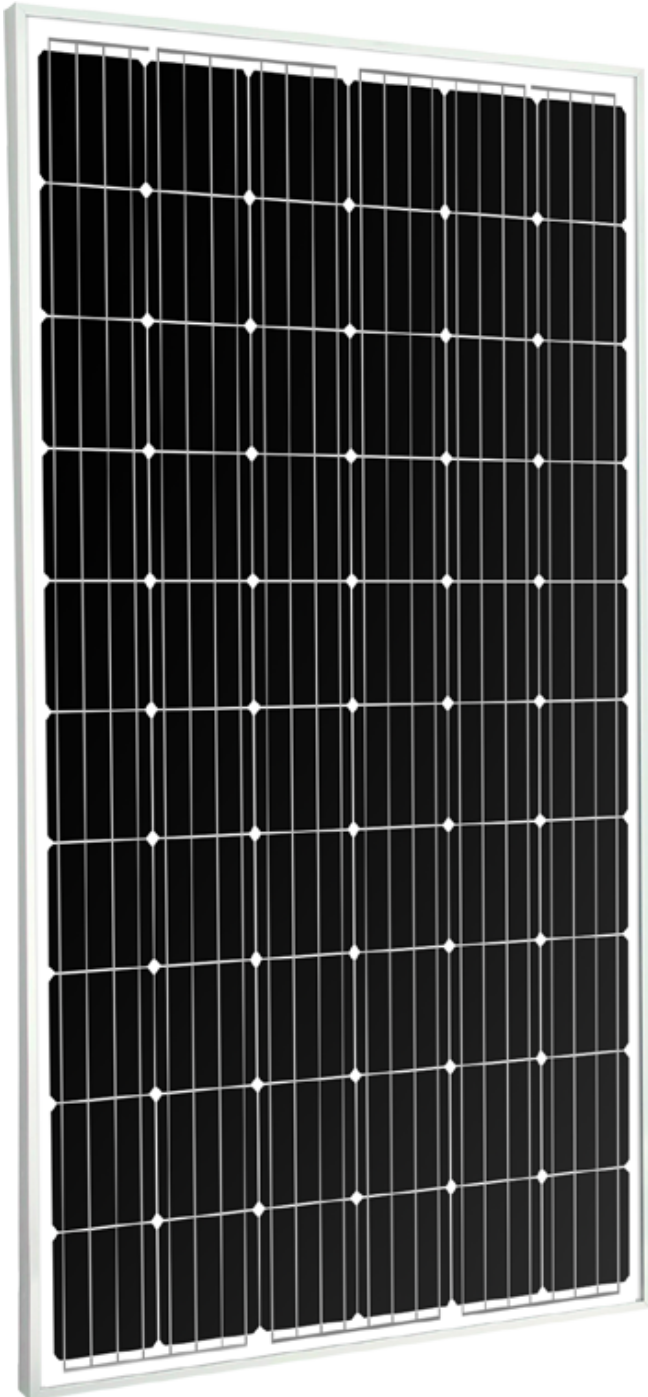


# TM-Series

## TM-M660305/315

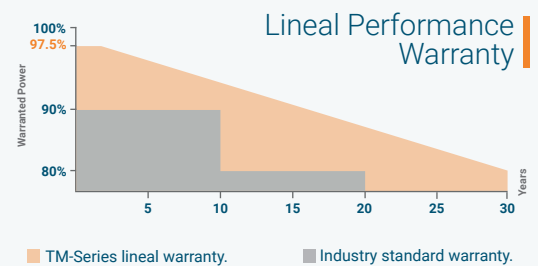


Monocrystalline  
PERC Solar Cells

305-315W  
Power Range

19.2%  
Efficiency

0/+5W  
Tolerance



10 YEARS PRODUCT · 30 YEARS POWER

### Key Features



#### Free PID

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.



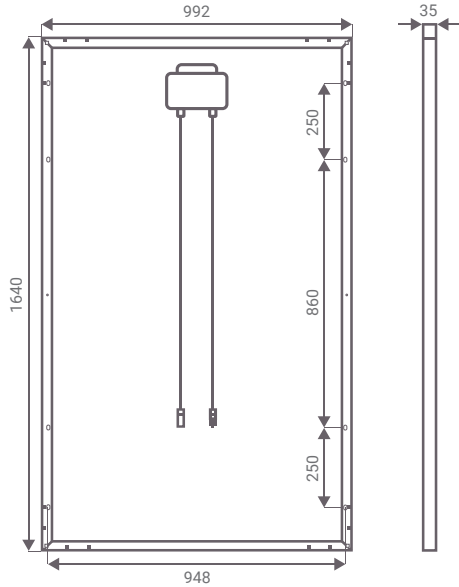
#### Robust and corrosion free modules

Certified to withstand the most challenging environmental conditions.

# TM-M660305/315

MONOCRYSTALLINE PV MODULES - PERC

# TM-Series



## ELECTRICAL DATA

STC	TM M660305	TM M660310	TM M660315
Maximum Power at STC (Pmax)	305 W	310 W	315 W
Optimum Operating Voltage (Vmp)	32.9 V	33.1 V	33.3 V
Optimum Operating Current (Imp)	9.28 A	9.37 A	9.46 A
Open Circuit Voltage (Voc)	40.0 V	40.2 V	40.5 V
Short Circuit Current (Isc)	9.85 A	9.94 A	10.0 A
Module Efficiency	18.6 %	18.9 %	19.2 %

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 M660305	TM M660310	TM M660315
Maximum Power at STC (Pmax)	227 W	231 W	235 W
Optimum Operating Voltage (Vmp)	30.5 V	30.7 V	30.9 V
Optimum Operating Current (Imp)	7.46 A	7.53 A	7.60 A
Open Circuit Voltage (Voc)	37.2 V	37.4 V	37.6 V
Short Circuit Current (Isc)	7.95 A	8.03 A	8.10 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	44 ± 2° C
Coefficient of (Pmax)	-0.39 %/°C
Coefficient of (Voc)	-0.29 %/°C
Coefficient of (Isc)	+0.05 %/°C

## OPERATIVE CONDITIONS

Power Tolerance	0/+5W
Max. System Voltage	1.000 V / 1.500 V
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 C

## CERTIFICATIONS



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

## MECHANICAL CHARACTERISTICS

Solar Cells	Monocrystalline silicon 156x156 mm
Cell Arrangement	60 cells in series
Front Cover	Low-iron tempered glass 3.2 mm
Frame	Silver, Anodized aluminum
Encapsulant	EVA (ethylene vinyl acetate)
Junction Box	IP68
Cables (length/area)	1000 mm / 4 mm <sup>2</sup>
Connectors	MC4 Compatible

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

**Observations:**  
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