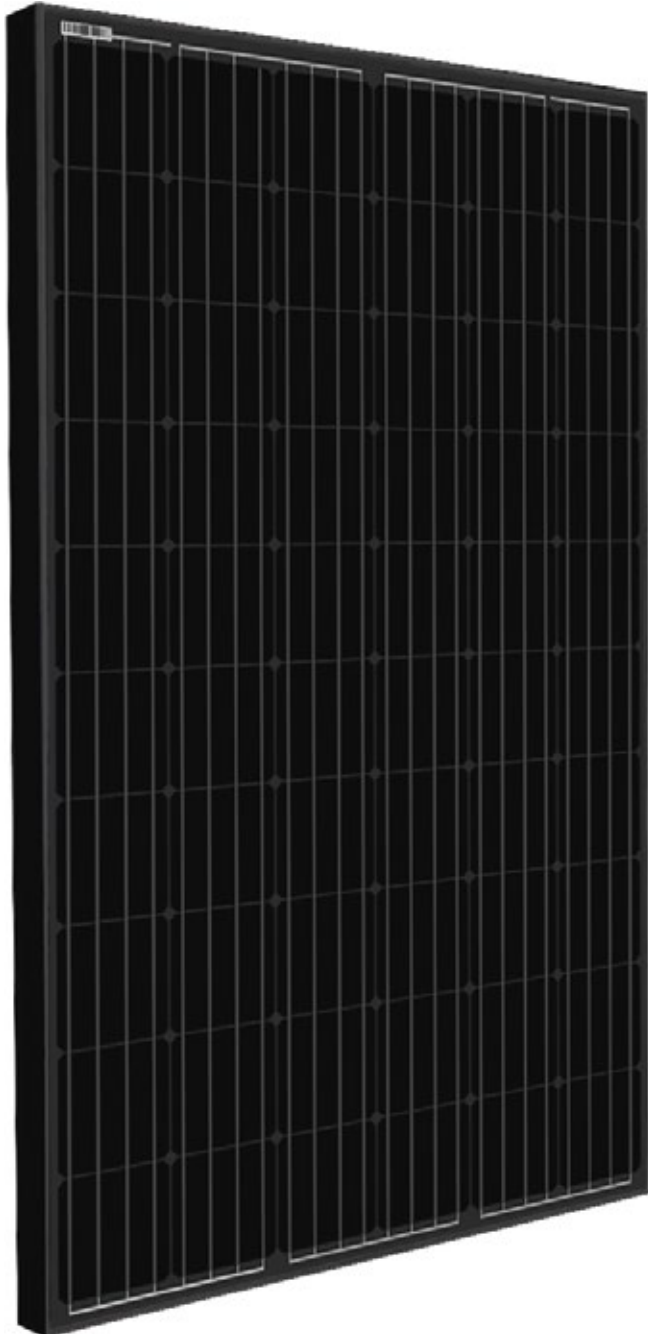


TM-Series

TM-M660280/300

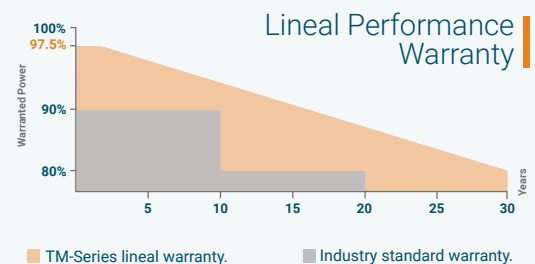


Monocrystalline
All Black Solar Panels

280-300W
Power Range

18.30%
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.

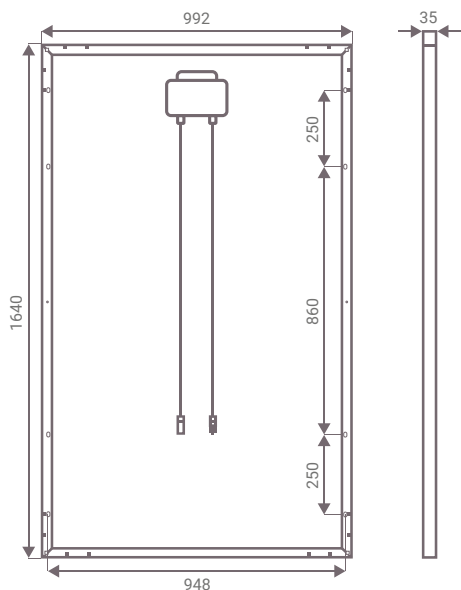


Robust and corrosion free modules
Certified to withstand the most challenging environmental conditions.

TM-M660280/300

ALL BLACK 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/m², 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/m², 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, UL.

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 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 ² (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 or by contacting one of our sales staff. All rights reserved ©Tamesol ®

Authorized Partner:

