

TM-SERIES MONOCRYSTALLINE

TM-M596260 · TM-M596255 · TM-M596250 · TM-M596245 · TM-M596240

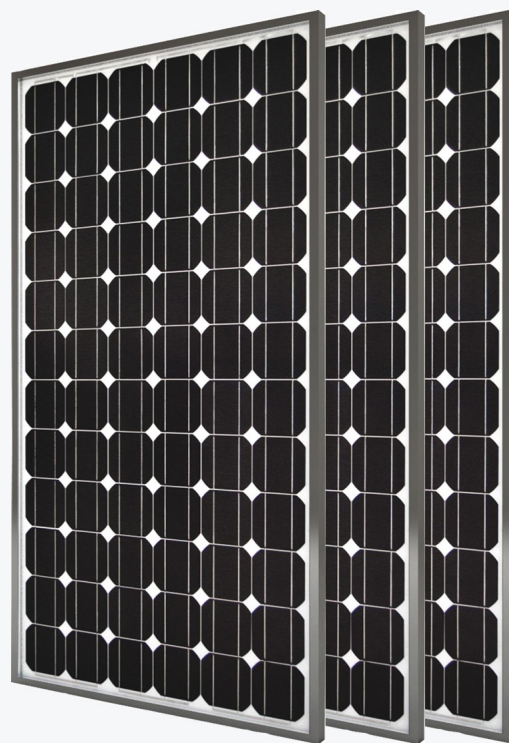
260W / 255W / 250W / 245W / 240W

FEATURES

- High module conversion efficiency up to 15.4%, through superior manufacturing technology.
- Guaranteed 0 to +5% power tolerance.
- Robust and corrosion free modules. Entire module certificated to withstand high wind loads and snow loads up to 5400Pa.
- Anodized aluminum frame improves load resistance capabilities.
- Highly transparent, low-iron, and tempered glass and antireflective coating.
- Excellent performance under low light environments.

BENEFITS

- International certificates to ensure the best quality and performance.
- Manufacturing process certified under the ISO 9001 standards.
- Product liability insurance.
- Local technical support.
- Enhanced design for easy installation and long term reliability.

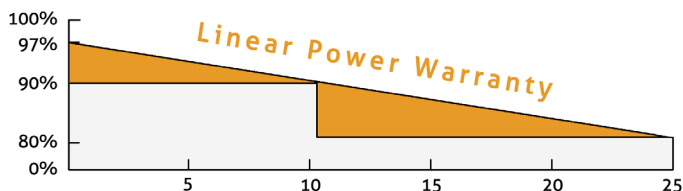


TM-M596260 260W. TM-M596255 255W. TM-M596250 250W. TM-M596245 245W. TM-M596240 240W

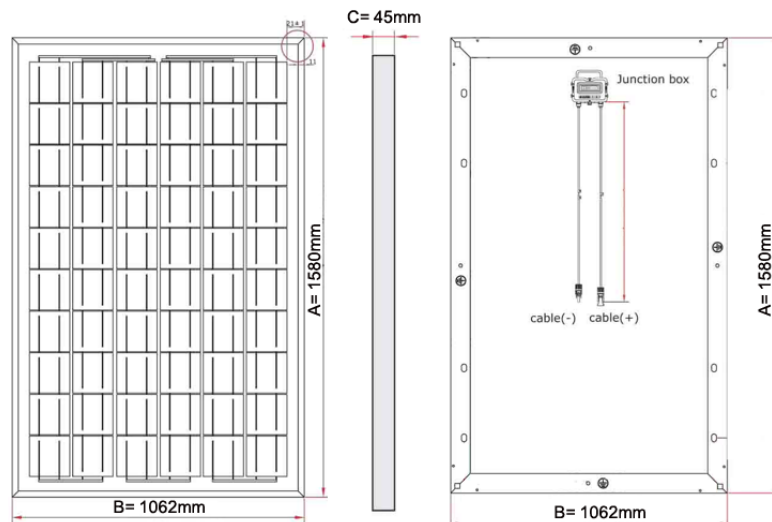


WARRANTIES

- 10-years warranty on material and workmanship.
- Linear power output warranty: power output decrease yearly. Year 25 rated power output not below than 80%.
- Additional warranted production insurance by top world insurance companies.



PHYSICAL CHARACTERISTICS



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ELECTRICAL SPECIFICATION

STC	TM-M596260	TM-M596255	TM-M596250	TM-M596245	TM-M596240
Nominal Power (Pmax)	260 W	255 W	250 W	245 W	240 W
Voltage at Pmax (Vmp)	49.5 V	49.5 V	49.5 V	49.5 V	49.5 V
Current at Pmax (Imp)	5.25 A	5.15 A	5.06 A	4.95 A	4.85 A
Open Circuit Voltage (Voc)	60.8 V	60.5 V	60.3 V	60.1 V	59.8 V
Short Circuit Current (Isc)	5.61 A	5.54 A	5.41 A	5.32 A	5.29 A
Module efficiency	15.56%	15.26%	14.97%	14.67%	14.37%
Power Tolerance	0, +5%				
Max. system voltage	1.000 V DC				
Max. series fuse rating	20 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

NOCT	TM-M596260	TM-M596255	TM-M596250	TM-M596245	TM-M596240
Nominal Power (Pmax)	187 W	184 W	180 W	176 W	173 W
Voltage at Pmax (Vmp)	43.4 V	43.3 V	43.0 V	43.0 V	42.9 V
Current at Pmax (Imp)	4.31 A	4.24 A	4.18 A	4.10 A	4.03 A
Open Circuit Voltage (Voc)	56.3 V	56.1 V	55.9 V	55.8 V	55.6 V
Short Circuit Current (Isc)	4.53 A	4.45 A	4.43 A	4.35 A	4.28 A

Electric characteristics at normal operation conditions (NOCT)

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

THERMAL CHARACTERISTICS

Nominal operating cell temperature (NOCT)	45 ± 2 °C
Temperature coefficient of Pmax	-0.45 %/°C
Temperature coefficient of Voc	-0.33 %/°C
Temperature coefficient of Isc	+0.06 %/°C
Temperature coefficient of Vmp	-0.420 %/°C

PACKAGING

Modules per pallet	22
N° of pallets per HC container (40')	28

PARTNER

MECHANICAL CHARACTERISTICS

Solar cells	Mono-crystalline silicon 125x125mm
Cell arrangement	96 cells in series
Dimensions	1580x1062x45 mm
Weight	19.5 kg
Max. load	5400 Pa
Front cover	Low-iron tempered glass 3.2 mm
Frame	Anodized aluminum alloy
Encapsulant	EVA (ethylene vinyl acetate)
Junction box (protection degree)	IP65
Bypass diodes	6
Cables (length / area)	≥1000 mm / 4 mm ²
Connectors	MC4

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