

TN-72-5M

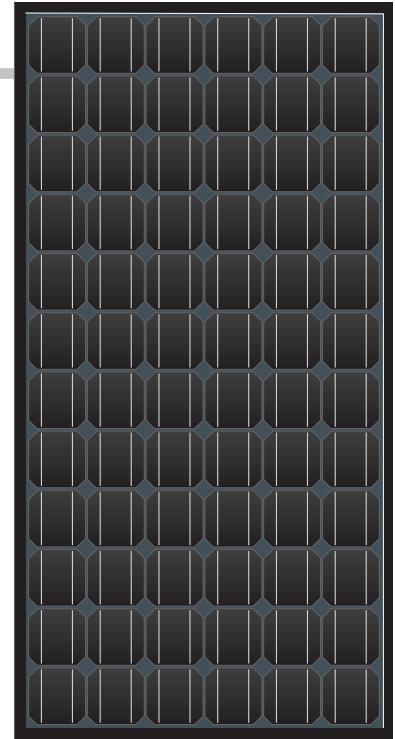
Silver Series | Black Series

160 W | 170 W | 180 W | 190 W | 200 W | 210 W

Monocrystalline silicon photovoltaic modules

Quality from TN SOLAR

- 10 Year Product Warranty
- 12 year performance guarantee for a 90% power output
- 30 year performance guarantee for a 80% power output



TN-72-5M BLACK



High module conversion efficiency

Module efficiency up to 16.0% achieved through advanced cell technology and manufacturing capabilities



Positive tolerance

Guaranteed positive tolerance of up to 3% or up to 7W delivers higher outputs' reliably



Independently certified

Independently certified by international certification bodies



Self-cleaning & anti-reflective

Higher module efficiency from anti-reflective, hydrophobic layer with higher light absorption and minimal surface dust



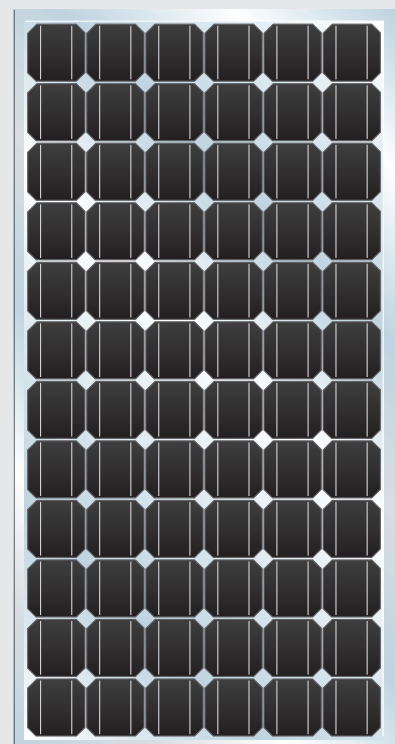
Easy Installation

Low weight, convenient format Horizontal and vertical installation possible Optimal utilisation of the roof surface



High performance

High performance under low light conditions Cloudy days, mornings and evenings



TN -72-5M SILVER

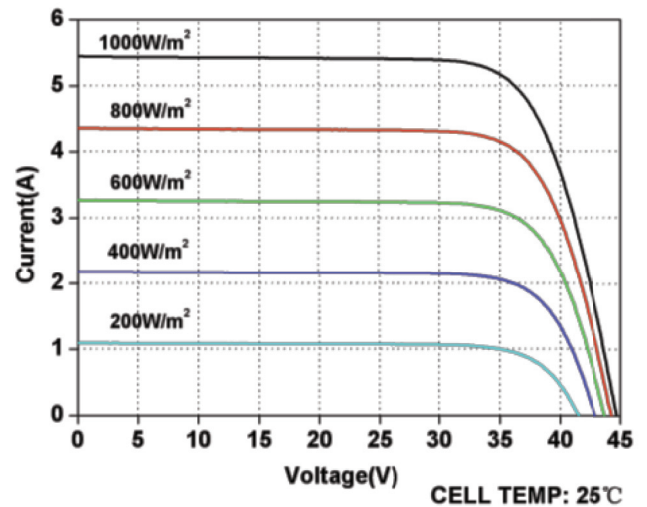
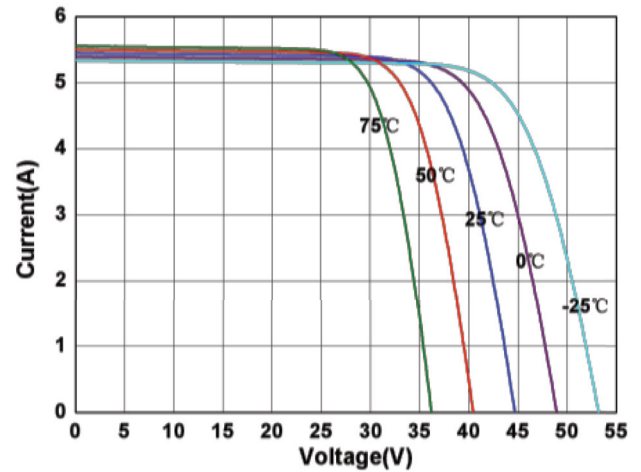
ELECTRICAL TYPICAL VALUES							
Model	Rated Power (Pmax)	Tolerance	Rated current (Imp)	Rated Voltage (Vmp)	Short Circuit Current (Isc)	Open circuit voltage (Voc)	Module Efficiency(%)
TN-72-5M160	160W	0/+3%	4.68A	34.7V	5.04A	43.7V	12.53
TN-72-5M 170	170W	0/+3%	4.79A	35.5V	5.11A	44.4V	13.32
TN-72-5M180	180W	0/+3%	4.97A	36.2V	5.26A	44.9V	14.10
TN-72-5M190	190W	0/+3%	5.11A	37.1V	5.36A	45.2V	14.88
TN-72-5M200	200W	0/+3%	5.30A	37.8V	5.45A	45.5V	15.66
TN-72-5M210	210W	0/+3%	5.40A	38.9V	5.55A	45.8V	16.45

TEMPERATURE CHARACTERISTICS
NOCT (Nominal Operation Temperature): 45°±2°Voltage
Temperature Coefficient :-0.35% / K
Current Temperature Coefficient :-0.05% / K
Power Temperature Coefficient :-0.48% / K

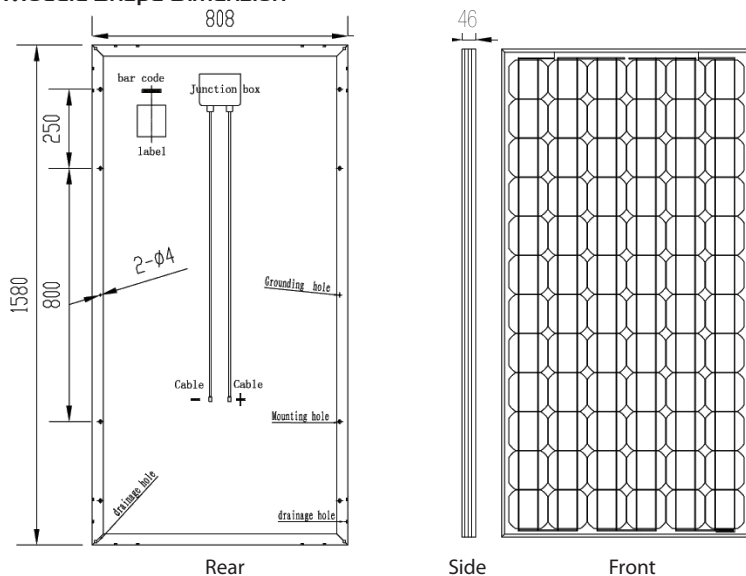
ABSOLUTE MAXIMUM RATING	
Parameter	Values
Operating temperature	From -40° to +85°
Typical Application	24 V DC
Hail Diameter @ 80km/h	Up to 25mm
Maximum Series Fuse Rating	10
IEC Application Class (IEC 61215)	A
Fire Rating (UL 1703)	C
Maximum System Voltage	1000 V DC (IEC 61215)
	600 V (UL 1703)

MECHANICAL CHARACTERISTICS	
Solar Cells	Mono crystal Si 125 mm ×125 mm Square, 6 ×12 pieces in series
Dimension	Length: 1580mm, Width: 808mm, Thickness: 35/40mm
Front Glass	3.2 mm High transparency solar glass
Frame	Anodized aluminium alloy
Cable	0.9m wire (ø 4 mm ²)
Diodes	6 pieces schottky by-pass diodes
Junction Box	IP 65 Rated
Connectors	MC4 Connectors

I-V graph (-72-5M 190)



Module Shape Dimension



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