

TN-60-6M

Black Series

210W | 220W | 230 W | 240 W | 250 W | 260 W

Monocrystalline silicon photovoltaic modules

Quality from TNS SOLAR

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



High module conversion efficiency

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



Self-cleaning & anti-reflective

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



Positive tolerance

Guaranteed positive tolerance of up to 5% or up to 13W delivers higher outputs' reliably



Easy Installation

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



Independently certified

Independently certified by international certification bodies



High performance

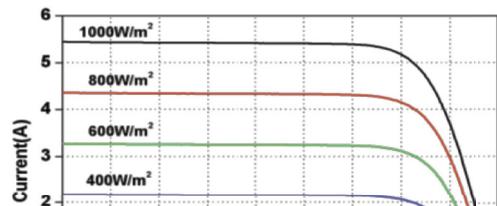
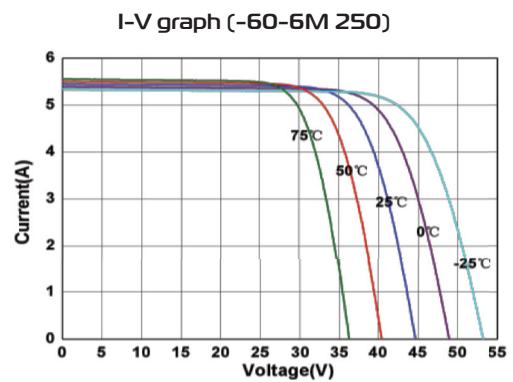
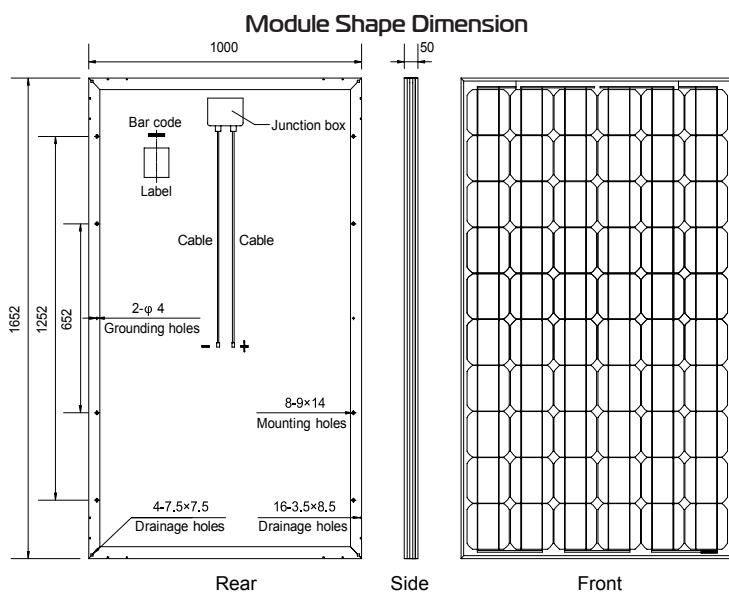
High performance under low light conditions Cloudy days, mornings and evenings

ELECTRICAL TYPICAL VALUES							
Model	Rated Power (Pmax)	Tolerance	Rated current (Impr)	Rated Voltage (Vmpr)	Short Circuit Current (Iscc)	Open circuit voltage (Voc)	Module Efficiency(%)
TN-60-6M210	210W	0/+5%	7.30A	28.8V	7.85A	36.8V	12.90
TN-60-6M220	220W	0/+5%	7.54A	29.2V	8.05A	37.0V	13.60
TN-60-6M230	230W	0/+5%	7.78A	29.6V	8.25A	37.3V	14.14
TN-60-6M240	240W	0/+5%	8.00A	30.0V	8.45A	37.6V	14.80
TN-60-6M250	250W	0/+5%	8.24A	30.4V	8.65A	37.9V	15.40
TN-60-6M260	260W	0/+5%	8.46A	30.8V	8.85A	39.1V	16.00

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

MECHANICAL CHARACTERISTICS	
Solar Cells	Mono crystal Si 125 mm ×125 mm Square, 6 ×12 pieces in series
Dimension	Length: 1640mm, Width: 992mm, Thickness: 50mm
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

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)



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