



- ✓ Positive power output tolerance.
- ✓ Excellent efficiency and long term reliability.
- ✓ Good performance under high temperature and low irradiance conditions.
- ✓ 100% EL tested before and after lamination.
- ✓ Anodized Aluminium Frames provides stability and protection in all weather conditions.
- ✓ Manufactured using highest grade of raw materials from global supply chain leaders.
- ✓ 10 years of mechanical warranty and 25 years of performance warranty.

Electrical Parameters: (All Data refers to STC (AM 1.5, 1000 W/m², 25°C))

Model	MTM275	MTM280
Peak Power (Pmax)	275 W	280 W
Maximum Voltage (Vm)	31.86 V	31.86 V
Maximum Current (Im)	8.64 A	8.81 A
Open Circuit Voltage (Voc)	37.86 V	37.86 V
Short Circuit Current (Isc)	9.11 A	9.30 A
Module Efficiency (%)	16.78	17.09

NOCT Data:

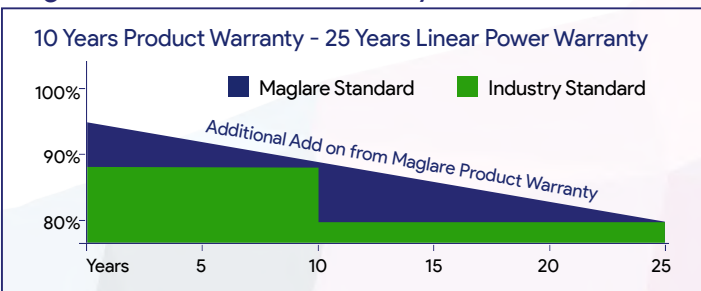
* Positive Power Tolerance

Model	MTM275	MTM280
Peak Power (Pmax)	198.83 W	202.44 W
Maximum Voltage (Vm)	28.99 V	28.99 V
Maximum Current (Im)	6.86 A	6.98 A
Open Circuit Voltage (Voc)	34.87 V	34.87 V
Short Circuit Current (Isc)	7.31 A	7.46 A

Mechanical Parameters:

Length X Width X Height	1655mm X 990mm X 35mm
Weight	17.6 Kg
Junction Box	IP 65/IP 67, 3 diodes
Cables & Connectors	1000 mm cable length with MC4 compatible connectors
Superstrate	3.2 mm, High Transmission, AR Coated Tempered Glass
Cells	60 Monocrystalline Cells : 4BB / 5BB
Cell Encapsulation	EVA (Ethylene Vinyl Acetate)
Backsheet	Composite Film
AL Frame	Anodized Aluminium Alloy
Maximum Fuse Rating	15A

Maglare Performance Warranty:

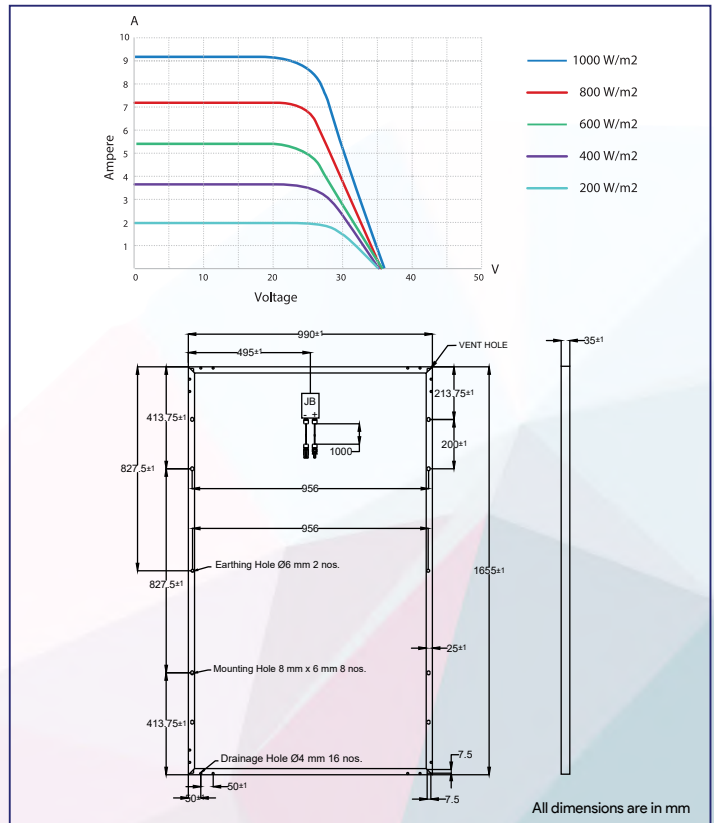


Permissible Operating Conditions:

Maximum System Voltage	= 1000 V
Maximum Surface Load	= 5400 Pa
Temperature Range	= - 40 °C to + 85 °C
Nominal Operating Cell Temp. (NOCT)	= 45 ±2 °C
Hail Resistance	= Maximum 25mm Diameter with 23m/s Velocity.

Temperature Coefficients:

Short Circuit Current Temp. Coefficient (α)	= + 0.056 % / °C
Open Circuit Voltage Temp. Coefficient (β)	= - 0.30 % / °C
Power Temp. Coefficient (γ)	= - 0.35 % / °C



Applications:

- ✓ Ground mounted and utility scale power plants
- ✓ On-grid rooftop residential, commercial
- ✓ Off-grid residential systems
- ✓ Industrial roof top installations
- ✓ Solar pumping applications