






-  **Glass with anti-reflective coating improves** light transmission
-  PID resistant with **long term reliability**
-  **Better performance** even at low irradiance condition
-  **Positive Power Tolerance** and Higher specific yield
-  Loss minimization due to excellent **temperature co-efficient**
-  Excellent module conversion **efficiency more than 17%**
-  **BOS cost reduction by connecting** more modules in a string as per maximum system voltage
-  **100% EL tested** before and after lamination



Applications



THE INDUSTRY'S FOOTPRINT

We, Maglare Technologies Pvt Ltd (MTPL), is providing reliable and cost effective energy solutions with focus on “know how” of emerging PV technologies of solar modules and implement them in methodical manner. This keeps us ahead in photovoltaic industry with the best quality products along with high power output and long term reliability.

Product Certifications:



IEC 61215 | IEC 61730 -1 & 2
IEC 62804-1 | IEC 61701
IEC 61853-1

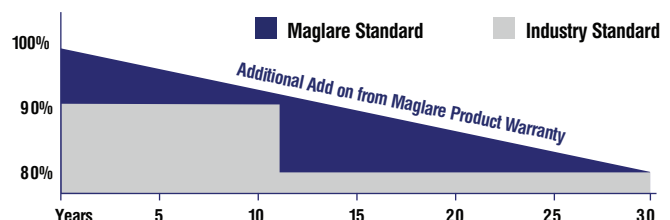
(Certifications are in progress)*

Management Certifications:

ISO 9001 : 2015 | ISO 14001 : 2015 | ISO 45001 : 2018

Maglare Performance Warranty:

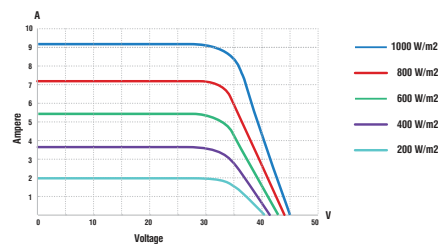
12 Years Product Warranty - 30 Years Linear Power Warranty



Electrical Parameters at STC:

Model	MT 300	MT 310	MT 315	MT 320	MT 325	MT 330	MT 335
Peak Power (Pmax)	300 W	310 W	315 W	320 W	325 W	330 W	335 W
Maximum Voltage (Vm)	36.72 V	37.36 V	37.44 V	37.61 V	38.16 V	38.59 V	39.38 V
Maximum Current (Im)	8.18 A	8.30 A	8.43 A	8.51 A	8.52 A	8.56 A	8.57 A
Open Circuit Voltage (Voc)	44.49 V	44.64 V	44.78 V	45.36 V	45.43 V	45.5 V	45.93 V
Short Circuit Current (Isc)	8.66 A	8.80 A	8.91 A	9.00 A	9.01 A	9.05 A	9.09 A
Module Efficiency (%)	15.38	15.89	16.15	16.41	16.66	16.92	17.17

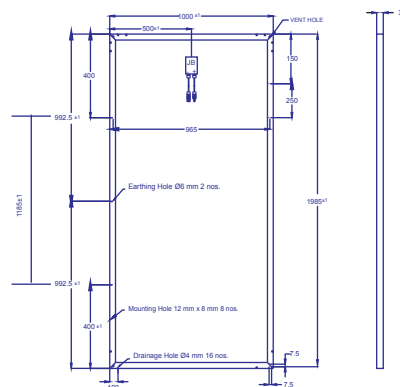
*Standard Test Conditions (STC) - 1000 W/m² irradiance, Air Mass 1.5 and 25°C cell temperature. Except Pm all other parameters have a tolerance of ± 2%



Electrical Parameters at NOCT:

Peak Power (Pmax)	220.50 W	227.85 W	231.53 W	235.20 W	238.88 W	242.55W	246.22 W
Maximum Voltage (Vm)	33.56 V	34.15 V	34.22 V	34.38 V	34.88 V	35.27 V	35.99 V
Maximum Current (Im)	6.57 A	6.67 A	6.77 A	6.84 A	6.85 A	6.88 A	6.89 A
Open Circuit Voltage (Voc)	41.15 V	41.29 V	41.42 V	41.96 V	42.02 V	42.09 V	42.48 V
Short Circuit Current (Isc)	6.97 A	7.08 A	7.17 A	7.25 A	7.25 A	7.29 A	7.32 A

*Nominal Operating Cell Temperature (NOCT) - 800 W/m² irradiance, Air Mass 1.5, Ambient temperature 20°C and Wind speed 1 m/s.



All dimensions are in mm

Mechanical Characteristics:

Length X Width X Height	1985 mm x 1000 mm x 35 mm
Weight	22 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	72 Polycrystalline Cells : 4BB / 5BB
Cell Encapsulation	EVA (Ethylene Vinyl Acetate)
Backsheet	Composite Film
AL Frame	Anodized Aluminium Alloy
Maximum Fuse Rating	15A

- Maglare is committed to provide quality solar PV Modules with its excellent R & D and Innovative Techniques. We are a proud supplier with a customer base in over 200+ locations nationally and 18 countries globally.

Temperature Coefficients:

Short Circuit Current Temp. Coefficient (α)	+ 0.051 % / °C
Open Circuit Voltage Temp. Coefficient (β)	- 0.32 % / °C
Power Temp. Coefficient (γ)	- 0.38 % / °C

- The electrical data given here is for reference purpose only.
- Before placing order confirm your requirement with our sales representative.
- Refer installation Manual instructions & Maglare warranty statement for terms & conditions
- Due to constant product modifications, Maglare reserves the right to amend the above specifications without prior notice.

Permissible Operating Conditions:

Maximum System Voltage	1000 V
Maximum Surface Load	5400 Pa
Temperature Range	- 40 °C to + 90 °C
Nominal Operating Cell Temp. (NOCT)	46 ± 2 °C
Hail Resistance	Maximum 25mm Diameter with 23m/s Velocity