

# 330Wp

## Polycrystalline Solar Modules ( 1500V Series )



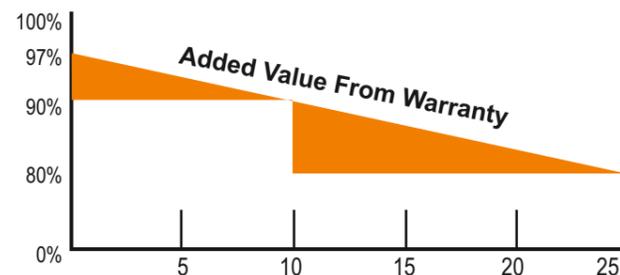
-  Polycrystalline Modules designed for Commercial Industrial and Residential Applications or lighting system, water pumping system and power packs (Rooftop and Ground).
-  Polycrystalline 72 cell Module achieves Power Output 330W with 16.94% Conversion Efficiency.
-  High Transmittance and Low Iron Tempered Glass with Anti-reflective Coating.
-  Outstanding Performance in low-light Irradiance Environment.
-  Excellent Mechanical Load Resistance withstand High Wind Loads (2400Pa) and Snow Load (5400Pa).
-  BIS Approved.
-  PID Resistant Modules with Long-term Reliability 100% EL Inspection done.

We believe in a sustainable future, and we believe in creating it ourselves. Being a multi-product organisation and one of India's leading engineering companies, Microsun has dedicated itself to leaving behind a green legacy. Working for greater good, our eco-conscious values have driven us into delivering world-class solar energy products manufactured using state-of-the-art technology from Ecoprogetti, Italy, each Microsun solar product is created with the single minded objective of reducing carbon footprints and global warming. Headquartered in Bengaluru, India.

We are committed to delighting our customers with best quality products and help them maximise their cost efficiency with clean energy. So come, join us and play a part in energising the future.

**25 Yrs  
Output  
Warranty**

10 Years Limited Product Warranty  
25 Years Limited Power Output Warranty  
- Minimum 90% at the end of 10 years  
- Minimum 80% at the end of 25 years



### Electrical Characteristics\*

Model	MS24330M
	STC
Nominal Maximum Power, $P_m$ (w)*	330Wp
Open Circuit Voltage, $V_{oc}$ (V)*	45.36
Short Circuit Current, $I_{sc}$ (A)*	9.30
Voltage at Maximum Power, $V_{mp}$	37.44
Current at Maximum Power, $I_{mp}$ (A)*	8.82
Module Efficiency (%)*	16.94
Limiting Reverse Current (A)	15
Maximum System Voltage (V)	1500V

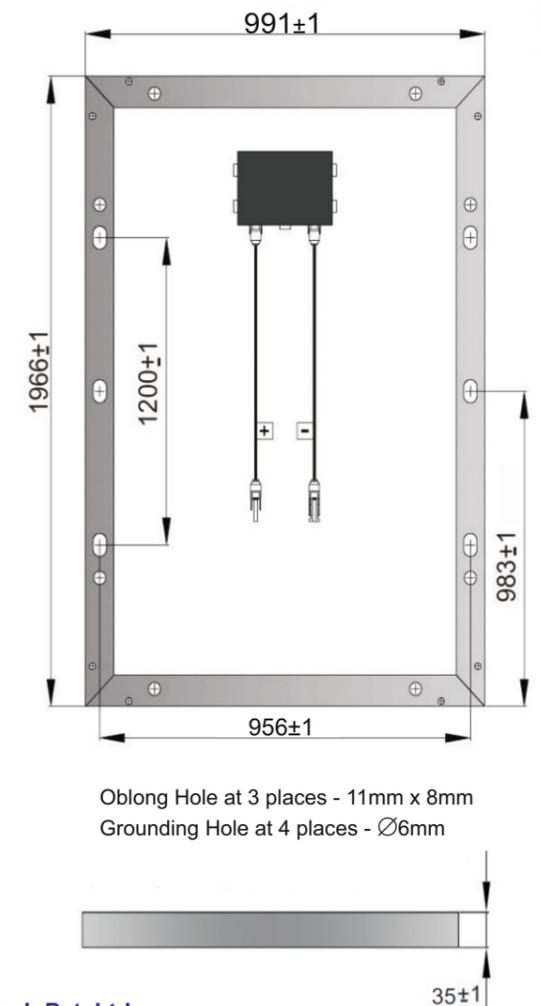
\*Standard Test Conditions (STC) : 1000 W/m<sup>2</sup> irradiance, AM 1.5 spectrum and 25 Deg. C cell temperature

### Mechanical Characteristics\*

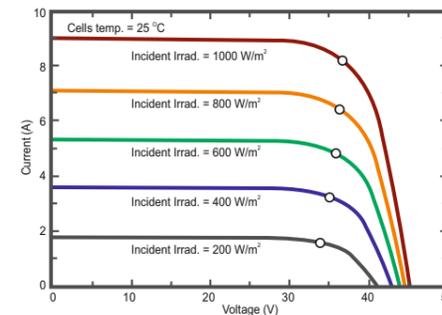
Length X Width X Thickness (L x W x T) - mm	: 1966 x 991 x 35
Weight (kg)	: 21.30
Solar Cells Per Module / Arrangement	: 72 Nos.
Solar Cell Type	: Polycrystalline / 156.75 x 156.75mm
Front Cover (Material / Thickness)	: Toughened Texture Glass
Encapsulate	: Ethylene Vinyl Acetate
Frame Material	: Anodized Aluminum
Junction Box	: IP68
No. of Bypass Diodes	: 3 / 6
Connector	: MC4 Compatible
Cable	: 1200 mm / 4 mm <sup>2</sup>
Mechanical Load (Wind/Snow)	: 2400 Pa / 5400 Pa
Fire Safety Class	: C
Safety Application Class	: A
Safety Class	: II

### Thermal Characteristics

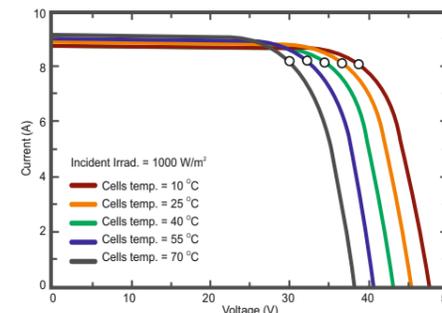
Temp. Coefficient of Current ( $I_{sc}$ ), $\alpha$ (% / °C)	: +0.052
Temp. Coefficient of Voltage ( $V_{oc}$ ), $\beta$ (% / °C)	: -0.30
Temp. Coefficient of Power ( $P_m$ ), $\gamma$ (% / °C)	: -0.40
NOCT (°C)	: 47° ± 2
Operating Temperature Range (°C)	: -20°C to +90°C



### I-V Curve Variation with Irradiance



### I-V Curve Variation with Temperature



\*The specifications may change and Microsun reserves the right to change them without prior notice.  
The rated electrical characteristics tolerance +/- 3%.  
# Conditions Apply.

**MicroSun Solar Tech Pvt. Ltd.**

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