

ECO GREEN ENERGY
Building a Greener World

ATLAS by Eco Green Energy

530-550W

M10 / 182 mm Cell - 144 Half-cell

Founded in 2008, Eco Green Energy is a french brand solar PV manufacturer and distributing now its PV module in more than 60 countries over the world. Atlas series solar modules are made only with grade A cells for highest power generation, lowest LCOE, and ensured more than 25 years lifespan.

KEY FEATURES



Gallium-doped Technology



Lower LCOE and BOS



Anti PID/ Low LID protection



Less Hot Spot Shading effects



Lower temperature coefficient

144-Cell

MONOCRYSTALLINE MODULE

21.28%

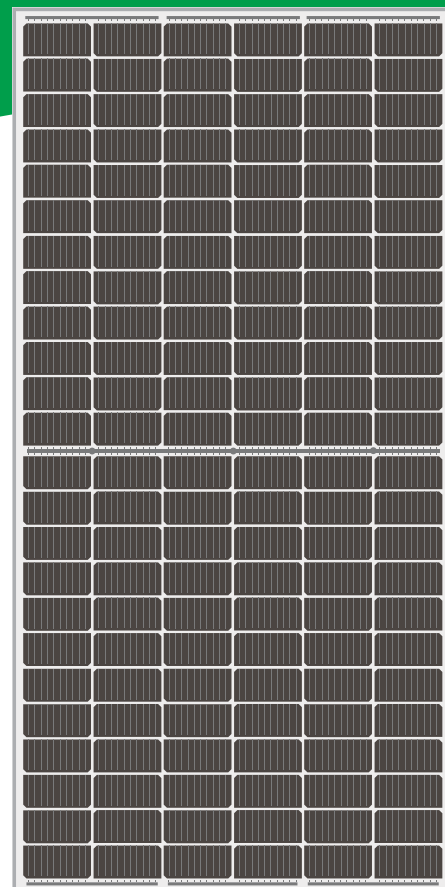
MAXIMUM EFFICIENCY

0~+5W

POSITIVE POWER TOLERANCE

GRADE A

CELLS GUARANTEED

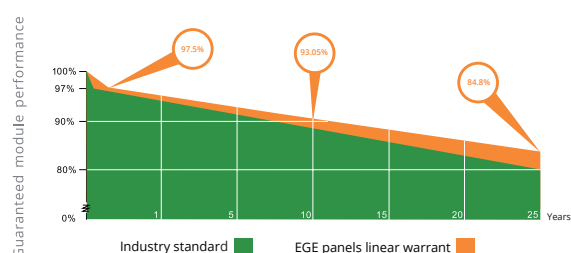


French Quality Module



LINEAR PERFORMANCE WARRANTY

12-Year Product Warranty · 25-Year Linear Power Warranty



COMPREHENSIVE CERTIFICATES

IEC 61215/ IEC 61730 / IEC 61701 / IEC 62716
ISO 9001 : Quality Management Systems



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Add: 299 Xing Cheng Road, Chong Chuan District, Nantong, Jiangsu, China
Tel: +86 513 66690088 / E-mail: info@eco-greenenergy.com

Facebook: www.facebook.com/EGE.Nantong
LinkedIn: www.linkedin.com/company/eco-green-energy/
Website: www.eco-greenenergy.com



ELECTRICAL DATA AT STC*

Power output (Pmax)	530 W	535 W	540 W	545 W	550 W
Power tolerance	0~+5 W	0~+5 W	0~+5 W	0~+5 W	0~+5 W
Module efficiency	20.51 %	20.70 %	20.89 %	21.09 %	21.28 %
Maximum power voltage (Vmp)	40.58 V	40.68 V	40.79 V	40.89 V	40.98 V
Maximum power current (Imp)	13.06 A	13.15 A	13.24 A	13.33 A	13.42 A
Open circuit voltage (Voc)	49.29 V	49.39 V	49.49 V	49.59 V	49.68 V
Short circuit current (Isc)	13.64 A	13.73 A	13.83 A	13.92 A	14.01 A

*Standard Test Conditions: Irradiance: 1 000 W / m² • Cell temperature: 25°C • AM: 1.5

ELECTRICAL DATA AT NMOT*

Power output (Pmax)	395.18 W	398.91 W	402.64 W	406.37 W	410.10 W
Maximum power voltage (Vmp)	38.05 V	38.14 V	38.24 V	38.33 V	38.42 V
Maximum power current (Imp)	10.37 A	10.44 A	10.52 A	10.59 A	10.66 A
Open circuit voltage (Voc)	45.71 V	45.80 V	45.90 V	45.99 V	46.07 V
Short circuit current (Isc)	11.09 A	11.16 A	11.24 A	11.32 A	11.39 A

*Nominal Operating Cell Temperature: Irradiance: 800 W / m² • Ambient temperature: 20°C
• AM: 1.5 • Wind speed: 1 m/s

MECHANICAL CHARACTERISTICS

Cell type	Monocrystalline (182x91 mm)
Number of cells	144
Dimensions	2279x1134x35mm (1.5mm Cell Gap)
Weight	29 kg
Glass	3.2 mm tempered glass, High transmission (>94%), Anti-Reflective Coating
Frame	Anodized aluminium alloy
Junction box	IP68 rated (3 by pass diodes)
Cable	4.0mm² ; 300mm(+) / 300mm(-) ; Length can be customized
Connector	MC4 or MC4 compatible
Max front load (e.g.: snow)	5400 Pa
Max back load (e.g.: wind)	2400 Pa

TEMPERATURE CHARACTERISTICS

NOCT	45°C ±2 °C
Temperature coefficient of Pmax	-0.35%/°C
Temperature coefficient of Voc	-0.28%/°C
Temperature coefficient of Isc	+0.048%/°C

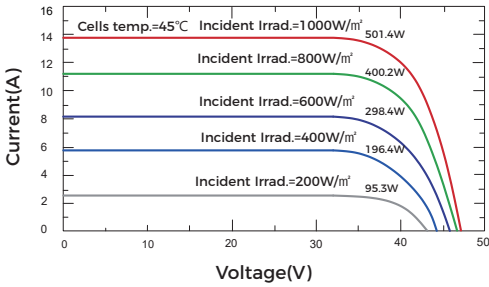
MAXIMUM RATINGS

Operating temperature range	-40 °C ~+85 °C
Maximum system voltage	1500 DC (IEC)
Max series fuse rating	25 A

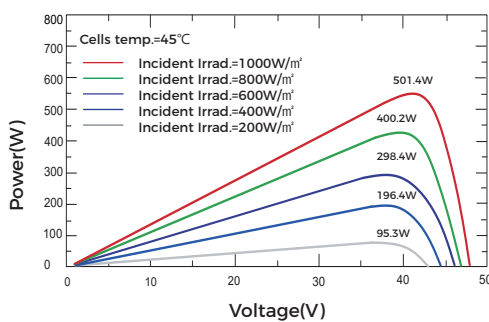
PACKAGING (2279x1134x35mm)

Type	Pcs	Weight
Per Pallet	31 pcs	940 kg
40ft HQ Container	620 pcs (20 pallets)	18.80 t

PV MODULE : EGE-540W-144M(M10)



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Dimension of PV Module (mm)

