

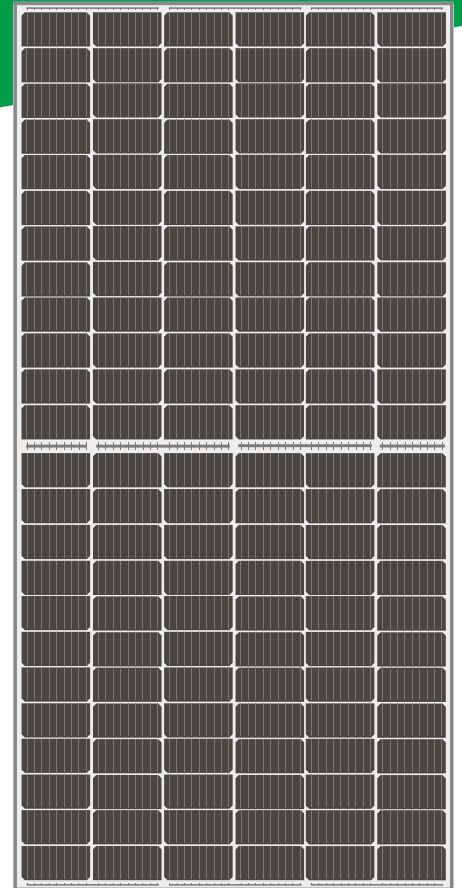
ECO GREEN ENERGY
Building a Greener World

HELIOS PLUS

445-455W

by Eco Green Energy

M6 / 166 mm Cell - 144 cells



French Quality Module

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. Helios Plus solar modules are made only with grade A cells for highest power generation, lowest LCOE, and ensured more than 25 years lifespan.

KEY FEATURES



PERC Cells Technology



Lower LCOE and BOS



Anti PID/ Low LID protection



Less Hot Spot Shading effects



Lower temperature coefficient

144-Cell

MONOCRYSTALLINE MODULE

20.81%

MAXIMUM EFFICIENCY

0~+5W

POSITIVE POWER TOLERANCE

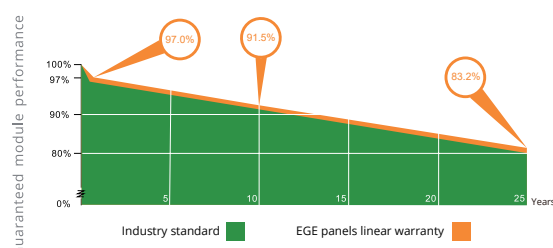
GRADE A

CELLS GUARANTEED



LINEAR PERFORMANCE WARRANTY

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



COMPREHENSIVE CERTIFICATES

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



ELECTRICAL DATA AT STC*

| | | | |
|-----------------------------|---------|---------|---------|
| Power output (Pmax) | 445 W | 450 W | 455 W |
| Power tolerance | 0~+5 W | 0~+5 W | 0~+5 W |
| Module efficiency | 20.36% | 20.58% | 20.81% |
| Maximum power voltage (Vmp) | 40.84 V | 40.96 V | 41.06 V |
| Maximum power current (Imp) | 10.90 A | 10.99 A | 11.08 A |
| Open circuit voltage (Voc) | 49.14 V | 49.28 V | 49.41 V |
| Short circuit current (Isc) | 11.48 A | 11.57 A | 11.66 A |

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

ELECTRICAL DATA AT NMOT*

| | | | |
|-----------------------------|----------|----------|----------|
| Power output (Pmax) | 331.80 W | 335.53 W | 339.26 W |
| Maximum power voltage (Vmp) | 38.29 V | 38.40 V | 38.49 V |
| Maximum power current (Imp) | 8.65 A | 8.73 A | 8.80 A |
| Open circuit voltage (Voc) | 45.57 V | 45.70 V | 45.82 V |
| Short circuit current (Isc) | 9.33 A | 9.41 A | 9.48 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 (166x83mm) |
| Number of cells | 144 |
| Dimensions | 2102x1040x35mm |
| Weight | 24.5 kg |
| Glass | 3.2 mm tempered glass |
| Frame | Anodized aluminium alloy |
| Junction box | IP68 rated (3 by pass diodes) |
| Cable | 4.0 mm ² , 300 mm (+) / 300 mm (-) ; Length can be customized |
| Connector | MC4 EVO2 compatible |
| Max front load (e.g.: snow) | 5400 Pa |
| Max back load (e.g.: wind) | 2400 Pa |

TEMPERATURE CHARACTERISTICS

| | |
|---------------------------------|-------------|
| NMOT | 41 °C ±3 °C |
| Temperature coefficient of Pmax | -0.35%/°C |
| Temperature coefficient of Voc | -0.30%/°C |
| Temperature coefficient of Isc | +0.05%/°C |

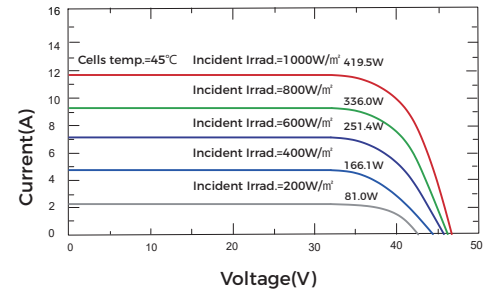
MAXIMUM RATINGS

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

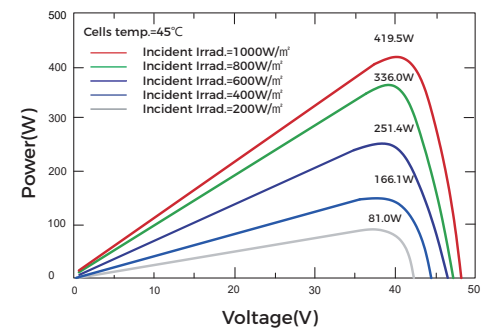
PACKAGING (2102x1040x35mm)

| Type | Pcs | Weight |
|-------------------|---------------------|---------|
| Per Pallet | 31 pcs | 800 kg |
| 40ft HQ Container | 682 pcs (22pallets) | 17.60 t |

PV MODULE : EGE-450W-144M(M6)



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Dimension of PV Module (mm)

