

HELIOS PLUS

445-455W

M6 / 166 mm Cell - 144 Half-cells



KEY FEATURES



PERC Cells Technology



Lower LCOE and BOS



Less Hot Spot Shading effects



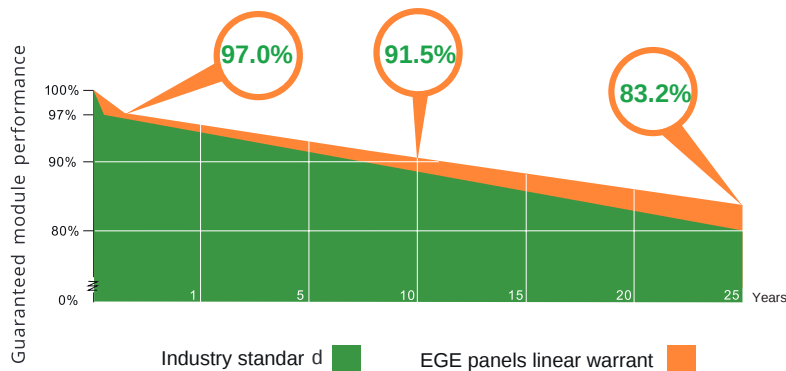
Anti PID/ Low LID protection



Lower temperature coefficient

LINEAR PERFORMANCE WARRANTY

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



144 Half-cells(9BB)

Monocrystalline Module



20.81%

Maximum Efficiency



0~+5W

Positive Power Tolerance



GRADE A

Cells Guaranteed

COMPREHENSIVE CERTIFICATES

IEC 61215/ IEC 61730 / IEC 61701 / IEC 62716

ISO 9001 : Quality Management Systems



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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 (STC) : Irradiance : 1,000 W / m² • Cell temperature : 25°C • AM: 1.5

ELECTRICAL DATA AT NOCT**

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 (NOCT) : Irradiance: 800 W / m² • Environment temperature : 20°C • AM : 1.5 • Wind speed : 1 m/s

MECHANICAL CHARACTERISTICS

Cell type	Monocrystalline (166x83mm)
Number of cells	144
Dimensions	2,102x1,040x35mm
Weight	24.5 kg
Glass	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)	5,400 Pa
Max back load (e.g.: wind)	2,400 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

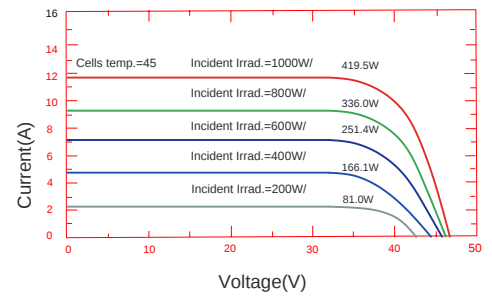
MAXIMUM RATINGS

Operating temperature range	-40 °C ~+85 °C
Maximum system voltage	1,500V/DC(IEC)
Max series fuse rating	25 A

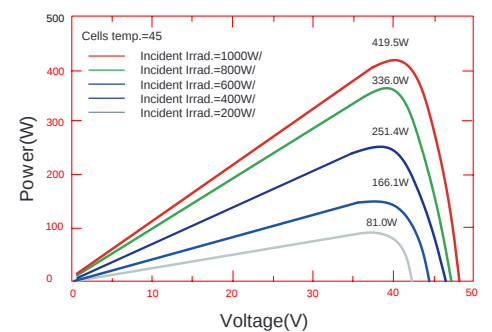
PACKAGING (2,102x1,040x35mm)

Type	Quantity	Weight
Per Pallet	31 pcs	800 kg
40ft HQ Container	682 pcs	17.60 t

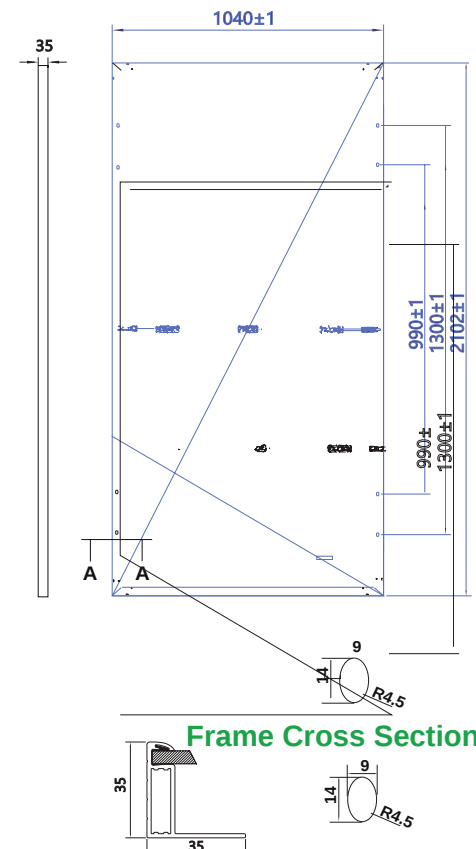
PV MODULE: EGE-450W-144M(M6)



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Dimension of PV Module (mm)



Frame Cross Section A-A'