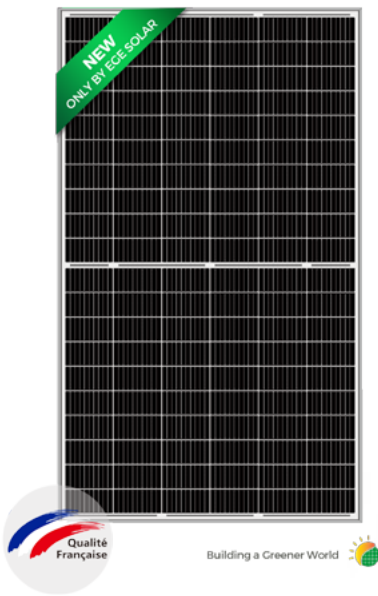


# HELIOS PLUS

360-380W / 120 Cells / 9 Bus Bars  
Monocrystalline Module  
EGE 166-M-60-HC



Eco Green Energy's modules are only made of grade A solar cells with a very high efficiency and ensured more than 25 years lifespan.

## KEY FEATURES



Reduce the temperature of the solar hot spot above 20 °C and current intensity between each cells, increase of the efficiency and power



Lower temperature coefficient



Lower LCOE (Levelized Cost of Energy), larger size of light receiving area and power



Reduction of the risk of Micro-cracks



Reducing the loss of current mismatch and resistance between each cells



**25 YEARS** OUTPUT POWER WARRANTY



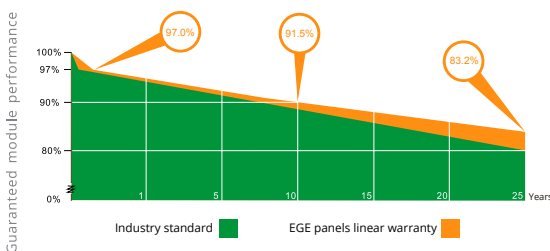
**12 YEARS** PRODUCT WARRANTY

## CERTIFICATES

ISO 9001:2015 / PV CYCLE / CE

## LINEAR PERFORMANCE WARRANTY

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



## ELECTRICAL DATA AT STC\*

Power output (Pmax)	360 W	365 W	370 W	375 W	380 W
Power tolerance	0~+5 W	0~+5 W	0~+5 W	0~+5 W	0~+5 W
Module efficiency	19.5 %	19.7 %	20.0 %	20.3 %	20.5 %
Maximum power voltage (Vmp)	33.70 V	33.90 V	34.10 V	34.30 V	34.50 V
Maximum power current (Imp)	10.69 A	10.77 A	10.86 A	10.95 A	10.04 A
Open circuit voltage (Voc)	40.90 V	41.10 V	41.30 V	41.50 V	41.70 V
Short circuit current (Isc)	11.20 A	11.28 A	11.37 A	11.46 A	11.55 A

\*Standard Test Conditions: Irradiance: 1 000 W / m<sup>2</sup> • Cell temperature: 25°C • AM: 1.5

## ELECTRICAL DATA AT NMOT\*

Power output (Pmax)	270 W	274 W	277 W	281 W	285 W
Maximum power voltage (Vmp)	31.30 V	31.50 V	31.60 V	31.80 V	32.00 V
Maximum power current (Imp)	8.64 A	8.71 A	8.77 A	8.84 A	8.91 A
Open circuit voltage (Voc)	38.40 V	38.50 V	38.70 V	38.90 V	39.10 V
Short circuit current (Isc)	9.09 A	9.17 A	9.19 A	9.21 A	9.23 A

\*Nominal Operating Cell Temperature: Irradiance: 800 W / m<sup>2</sup> • Ambient temperature: 20°C • AM: 1.5 • Wind speed: 1 m/s

## TEMPERATURE CHARACTERISTICS

NMOT	41 °C ±3 °C
Temperature coefficient of Pmax	-0.36%/°C
Temperature coefficient of Voc	-0.28%/°C
Temperature coefficient of Isc	+0.05%/°C

## MAXIMUM RATINGS

Operating temperature range	-40 °C ~+85 °C
Maximum system voltage	1000V / 1500V
Max series fuse rating	20 A
Max front load (e.g.: snow)	5400 Pa
Max back load (e.g.: wind)	2400 Pa

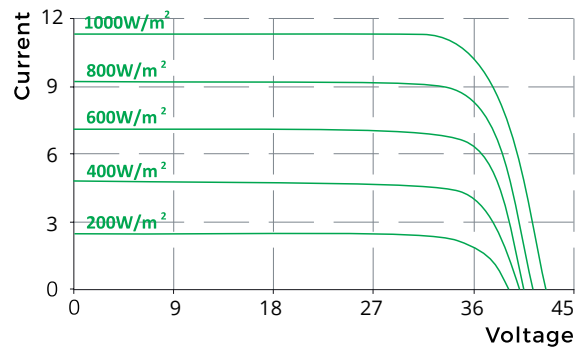
## MECHANICAL CHARACTERISTICS

Cell type	Monocrystalline (166x83 mm)
Number of cells	120
Dimensions	1765x1048x35mm
Weight	20 kg
Glass	3.2 mm tempered glass
Frame	Anodized aluminium alloy
Junction box	IP68
Cable	4,0mm <sup>2</sup>
Connector	MC4 compatible

## PACKAGING

Type	Pcs/ Type	Weight
Per Pallet	30 pcs	650 kg
20ft GP Container	350 pcs	7.6 t
40ft GP Container	736 pcs	16.0 t
40ft HQ Container	810 pcs	17.6 t

## I-V CURVES



## ENGINEERING DRAWINGS (mm)

