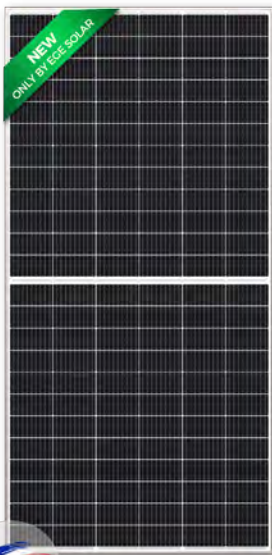


HELIOS

390-410 W / 144 Cells / 9 Bus Bars
Monocrystalline Module
EGE-390-410W-144M (G1)



Building a Greener World 

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



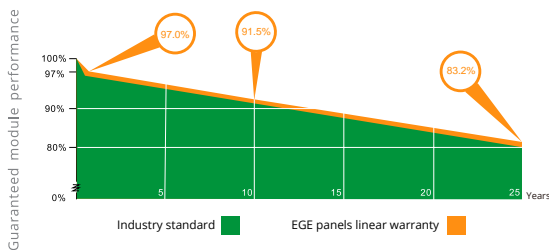
Reducing the loss of current mismatch and resistance between each cells

CERTIFICATES

TUV SUD (IEC61215 / 61730) /
ISO 9001:2015 / PV CYCLE / CE

LINEAR PERFORMANCE WARRANTY

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



OUTPUT POWER WARRANTY



PRODUCT WARRANTY

ELECTRICAL DATA AT STC*

Power output (Pmax)	390 W	395 W	400 W	405 W	410 W
Power tolerance	0~+5 W	0~+5 W	0~+5 W	0~+5 W	0~+5 W
Module efficiency	19.4 %	19.7 %	19.9 %	20.2 %	20.4 %
Maximum power voltage (Vmp)	40.50 V	40.70 V	41.00 V	41.30 V	41.6 V
Maximum power current (Imp)	9.64 A	9.71 A	9.76 A	9.81 A	9.86 A
Open circuit voltage (Voc)	48.4 V	48.6 V	48.9 V	49.2 V	49.5 V
Short circuit current (Isc)	10.16 A	10.23 A	10.29 A	10.35 A	10.4 A

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

ELECTRICAL DATA AT NOCT*

Power output (Pmax)	293.2 W	297.1 W	300.8 W	300.8 W	300.8 W
Maximum power voltage (Vmp)	37.6 V	37.9 V	38.2 V	38.5 V	38.8 V
Maximum power current (Imp)	7.79 A	7.83 A	7.87 A	7.91 A	7.95 A
Open circuit voltage (Voc)	45.5 V	45.7 V	46.0 V	46.2 V	46.4 V
Short circuit current (Isc)	8.22 A	8.27 A	8.32 A	8.37 A	8.42 A

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

TEMPERATURE CHARACTERISTICS

NOCT	45 °C (±2 °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	1000V DC / 1500V DC
Max series fuse rating	20 A
Max front load (e.g.: snow)	5400 Pa
Max back load (e.g.: wind)	2400 Pa

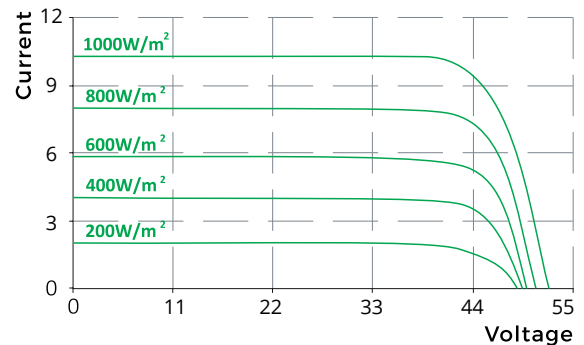
MECHANICAL CHARACTERISTICS

Cell type	Monocrystalline (158.75x79.38 mm)
Number of cells	144
Dimensions	2015x996x35mm
Weight	22 kg
Glass	3.2 mm tempered glass
Frame	Anodized aluminium alloy
Junction box	IP68
Cable	1.1m
Connector	QC4 or MC4 compatible

PACKAGING

Type	Pcs/ Type	Weight
Per Pallet	30 pcs	700 kg
20ft GP Container	314 pcs	7.33 t
40ft GP Container	670 pcs	16.65 t
40ft HQ Container	720 pcs	16.8 t

I-V CURVES



ENGINEERING DRAWINGS (mm)

