

SOLAR MODULE

EGE-300-325M-120-BIFACIAL-HC

MONOCRYSTALLINE MODULE

300-325 W / 120 Cells / 5 Bus bars

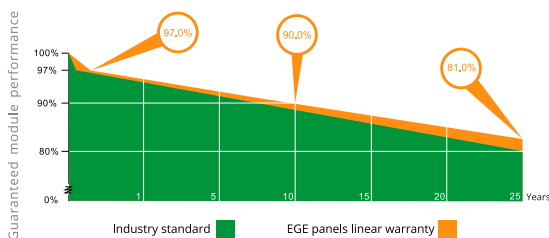


CERTIFICATES

IEC 61215 / IEC 61730 / CE
ISO 9001:2015

LINEAR PERFORMANCE WARRANTY

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



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



5 bus bars cells, with efficiency up to 22.8 %



IP67 junction box for long term weather endurance



High quality aluminum frame, resisting load up to 5400 Pa and wind pressure up to 2400 Pa



High transmissivity, low-iron tempered glass



High performance in low-light environment



Double EL test before and after lamination



25 YEARS OUTPUT POWER WARRANTY



12 YEARS PRODUCT WARRANTY

ELECTRICAL DATA AT STC*

Power output (Pmax)	300 W	305 W	310 W	315 W	320 W	325 W
Power tolerance	0~+5 W	0~+5 W	0~+5 W	0~+5 W	0~+5 W	0~+5 W
Module efficiency	17.47 %	17.76 %	18.05 %	18.34 %	18.63 %	18.92 %
Maximum power voltage (Vmp)	33.00 V	33.22 V	33.48 V	33.69 V	33.83 V	33.96 V
Maximum power current (Imp)	9.09 A	9.18 A	9.26 A	9.35 A	9.46 A	9.57 A
Open circuit voltage (Voc)	39.50 V	39.88 V	40.15 V	40.39 V	40.51 V	40.62 V
Short circuit current (Isc)	9.65 A	9.74 A	9.82 A	9.91 A	9.99 A	10.09 A

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

POWER GAIN BIFACIAL IN STC*

10%	Power output (Pmax)	330 W	335.5 W	341 W	346.5 W	352 W	357.5 W
	Module efficiency	19.22 %	19.54 %	19.86 %	20.17 %	20.49 %	20.81 %
15%	Power output (Pmax)	345 W	351 W	356.5 W	362.3 W	368 W	373.8 W
	Module efficiency	20.09 %	20.42 %	20.76 %	21.09 %	21.42 %	21.76 %
20%	Power output (Pmax)	360 W	366 W	372 W	372 W	384 W	390 W
	Module efficiency	20.96 %	21.31 %	21.66 %	22.01 %	22.36 %	22.70 %

* Power Gain Bifacial in STC: It depends on installation condition.

ELECTRICAL DATA AT NOCT*

Power output (Pmax)	223.69 W	227.42 W	231.14 W	234.87 W	238.60 W	242.33 W
Maximum power voltage (Vmp)	30.94 V	31.15 V	31.38 V	31.58 V	31.71 V	31.84 V
Maximum power current (Imp)	7.22 A	7.29 A	7.35 A	7.43 A	7.51 A	7.60 A
Open circuit voltage (Voc)	36.63 V	36.98 V	37.23 V	37.46 V	37.57 V	37.67 V
Short circuit current (Isc)	7.84 A	7.92 A	7.98 A	8.06 A	8.12 A	8.20 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	-0.396 %/°C
Temperature coefficient of Voc	-0.31%/°C
Temperature coefficient of Isc	+0.06%/°C

MAXIMUM RATINGS

Operating temperature range	-45 °C ~+85 °C
Maximum system voltage	1500 V
Max series fuse rating	15 A
Max front load (e.g.: snow)	5400 Pa
Max back load (e.g.: wind)	2400 Pa

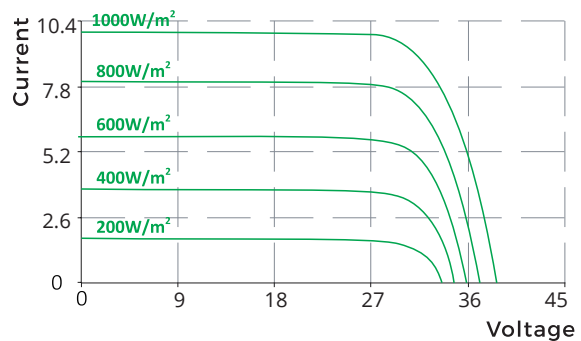
MECHANICAL CHARACTERISTICS

Cell type	Monocrystalline (158.75x79.375mm)
Number of cells	120
Dimensions	1704x1008x35 mm
Weight	26 kg
Glass	2.5+2.5 mm tempered glass
Frame	Anodized aluminium alloy
Junction box	IP67
Cable	0.25 m & 0.35 m
Connector	MC4 or MC4 compatible

PACKAGING

Type	Pcs/ Type	Weight
Per pallet	30 pcs	820 kg
20ft GP Container	376 pcs	10.28 t
40ft GP Container	780 pcs	21.32 t
40ft HQ Container	858 pcs	23.5 t

I-V CURVES



ENGINEERING DRAWINGS (mm)

