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# **EnergyPal**

## **Solar Panel Guide Specification Data Sheet**

**Eco Green Energy**

**EGE-50-55P-36**

**EGE-55P-36**

Also available on the web at  
[EnergyPal.com/eco-green-energy-solar-panels/ege-55p-36](http://EnergyPal.com/eco-green-energy-solar-panels/ege-55p-36)

# SOLAR MODULE EGE-50P-36 POLYCRYSTALLINE MODULE

50 W / 36 Cells / 5 Busbars cells



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.

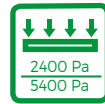
## KEY FEATURES



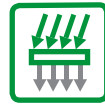
5 bus bars cells, with efficiency up to 21 %



IP65 or 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



**OUTPUT POWER WARRANTY**



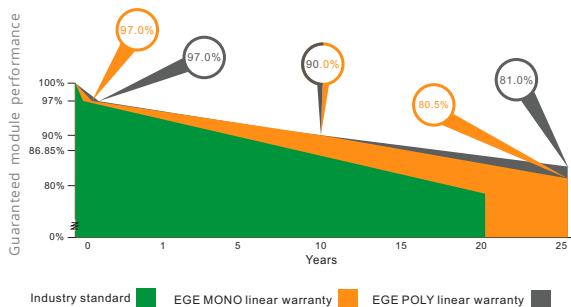
**PRODUCT WARRANTY**

## CERTIFICATES

IEC 61215 / IEC 61730 / CE  
ISO 9001:2015

## LINEAR PERFORMANCE WARRANTY

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



## ELECTRICAL DATA AT STC\*

Power output (Pmax)	50 W
Power tolerance	0~+3 %
Module efficiency	13.82 %
Maximum power voltage (Vmp)	18.49 V
Maximum power current (Imp)	2.70 A
Open circuit voltage (Voc)	22.51 V
Short circuit current (Isc)	2.96 A

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

## ELECTRICAL DATA AT NOCT\*

Power output (Pmax)	36.99 W
Maximum power voltage (Vmp)	17.08 V
Maximum power current (Imp)	2.16 A
Open circuit voltage (Voc)	20.90 V
Short circuit current (Isc)	2.40 A

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

## TEMPERATURE CHARACTERISTICS

NOCT	45 °C ±2 °C
Temperature coefficient of Pmax	-0.41%/°C
Temperature coefficient of Voc	-0.31%/°C
Temperature coefficient of Isc	+0.06%/°C

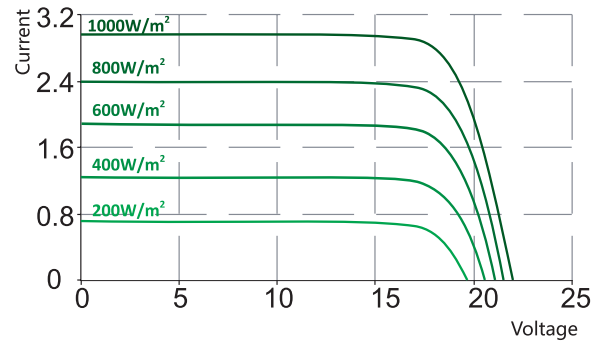
## MAXIMUM RATINGS

Operating temperature range	-45 °C ~+85 °C
Maximum system voltage	1500 V
Max series fuse rating	15 A
Max front load (e.g.: snow)	5 400 Pa
Max back load (e.g.: wind)	2 400 Pa

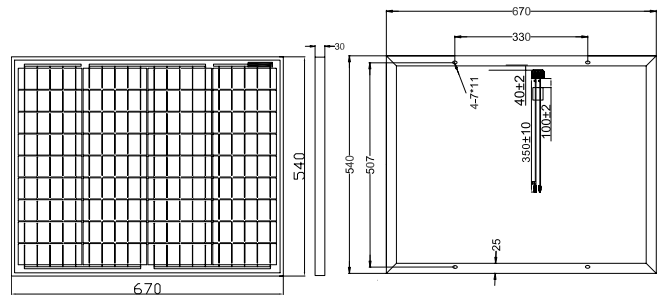
## MECHANICAL CHARACTERISTICS

Cell type	Polycrystalline (156x52 mm)
Number of cells	36
Dimensions	540x670x30mm
Weight	4.5 kg
Glass	3.2 mm tempered glass
Frame	Anodized aluminium alloy
Junction box	IP65 or IP67
Cable	0.35 m
Connector	MC4 or MC4 compatible

## EGE-50P-36 / I-V CURVES



## ENGINEERING DRAWINGS (mm)



## PACKAGING

Type	Pcs/ Type	Weight
Per Box	2 pcs	9.5 kg
20ft GP Container	1800 pcs	8.6 t
40ft GP Container	4000 pcs	19.0 t
40ft HQ Container	4600 pcs	21.9 t