



ECO GREEN ENERGY

EGE-50P-36 **POLYCRYSTALLINE** **PHOTOVOLTAIC MODULE**



4 busbars cells, with efficiency up to 18.8 %.



IP65 junction box for long term weather endurance.



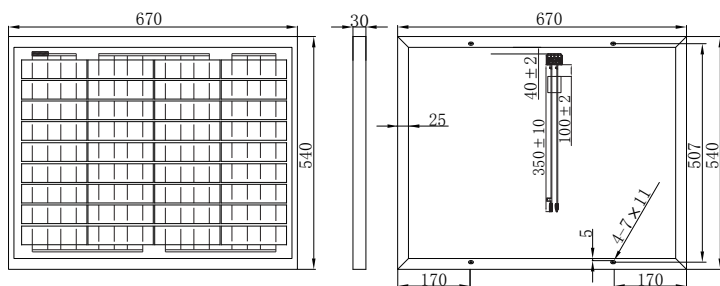
High quality aluminum frame, resisting load up to 5400 Pa and wind pressure up to 2400 Pa.



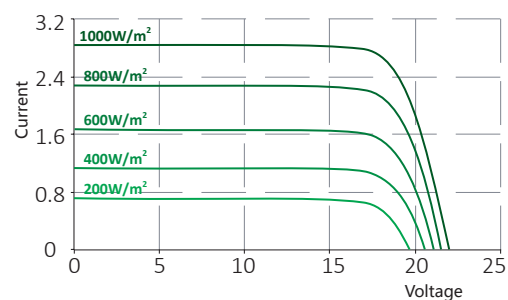
High transmissivity, low-iron tempered glass.



Engineering drawings



IV curves



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

Electrical characteristics at STC*

Power output (Pmax)	50 W
Power output tolerance	0~3 %
Panel efficiency	13.82 %
Maximum power voltage (Vmp)	18.59 V
Maximum power current (Imp)	2.69 A
Open circuit voltage (Voc)	22.60 V
Short circuit current (Isc)	2.95 A

*Standard test conditions:
irradiance: 1000 W/m² • cell temperature: 25 °C • AM: 1.5

General characteristics

Cell type	Polycrystalline (156×52 mm)
Number of cells	36
Dimensions	540×670×30 mm
Weight	4.5 kg
Glass	3.2 mm tempered glass
Frame	Anodized aluminium alloy
Junction box	IP65
Cable	0.35 m
Connector	MC4 or MC4 compatible

Electrical characteristics at NOCT*

Power output (Pmax)	37 W
Maximum power voltage (Vmp)	17.17 V
Maximum power current (Imp)	2.15 A
Open circuit voltage (Voc)	20.98 V
Short circuit current (Isc)	2.39 A

*Nominal operating cell temperature:
irradiance: 800 W/m² • ambient temperature: 20 °C • AM: 1.5 • wind speed: 1 m/s

Packaging

Per box	2 pcs
Per 20ft GP container	1700 pcs
Per 40ft GP container	3700 pcs
Per 40ft HQ container	4400 pcs

Operating conditions

Operating temperature range	-45 °C ~ +85 °C
Max system voltage	1000 V
Max series fuse rating	10 A
Max front load (ex: snow)	5400 Pa
Max back load (ex: wind)	2400 Pa

Certification

