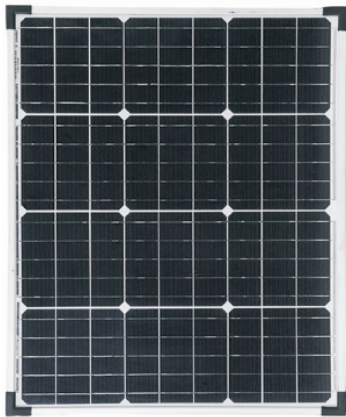


## SOLAR MODULE

ECS-50M-36

MONOCRYSTALLINE MODULE

50W / 36 Cells / 5 Bus bars



Eco Solar 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 light transmission , low-iron tempered glass



High performance in low-light environment



Double EL test before and after lamination



**OUTPUT POWER WARRANTY**

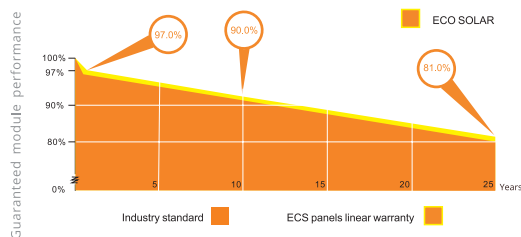


**PRODUCT WARRANTY**



### LINEAR PERFORMANCE WARRANTY

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



## ELECTRICAL DATA AT STC\*

Maximum power (Pmax)	50W
Power tolerance	0 - 3%
Voltage at Pmax (Vmp)	19.2V
Current at Pmax (Imp)	2.61A
Open-circuit voltage (Voc)	23.6V
Short-circuit current (Isc)	2.76A

## TEMPERATURE CHARACTERISTICS

NOCT (Air 20°C; Sun 0.8kW/m² wind 1m/s)	47±2°C
Temperature coefficient of Voc	-(0.40 ± 0.05)%/ °C
Temperature coefficient of Isc	(0.065 ± 0.01)% /°C
Temperature coefficient of power	-(0.5±0.05)%/ °C

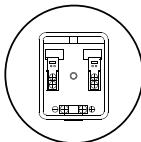
## MAXIMUM RATINGS

Operating temperature	-40°C to 85°C
Maximum system voltage	600V DC
Max series fuse rating	6A
Max front load (e.g.:snow)	5400 Pa
Max back load (e.g.:wind)	2400 Pa

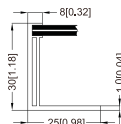
## MECHANICAL CHARACTERISTICS

Cell type	Monocrystalline
Number of cells	36
Dimensions	610x510x30mm
Weight	3.8kg
Glass	3.2mm Tempered Glass
Frame	Silver/Black Anodized Aluminium Alloy
Junction Box	IP67
Cable	Optional
Connector	Optional

Dimensions in brackets are in inches.  
Un-bracketed dimensions are in millimeters.  
Unit:mm[in.]

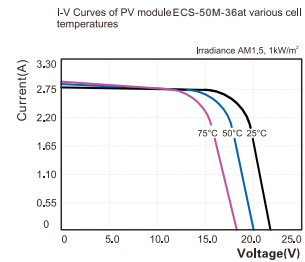
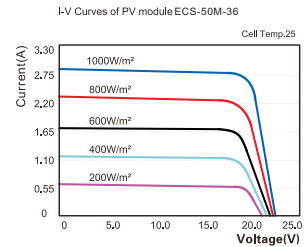


Junction Box  
Top View (Lidopen)

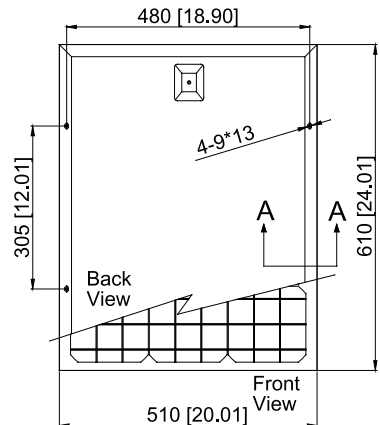


SectionA-A

## I-V CURVES



## DIMENSIONS OF PV MODULES (mm)



**Eco Solar energy**®  
Powering Future