

SOLAR MODULE

ECS-90M-36

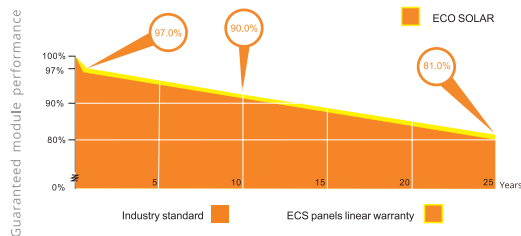
MONOCRYSTALLINE MODULE

90W / 36 Cells / 5 Bus bars



LINEAR PERFORMANCE WARRANTY

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



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

ELECTRICAL DATA AT STC*

Maximum power (Pmax)	90W
Power tolerance	0 - 3%
Voltage at Pmax (Vmp)	20.0V
Current at Pmax (Imp)	4.51A
Open-circuit voltage (Voc)	24.0V
Short-circuit current (Isc)	4.87A

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

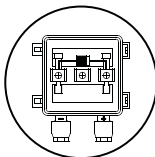
MAXIMUM RATINGS

Operating temperature	-40°C to 85°C
Maximum system voltage	600V DC
Max series fuse rating	10A
Max front load (e.g.:snow)	5400 Pa
Max back load (e.g.:wind)	2400 Pa

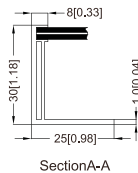
MECHANICAL CHARACTERISTICS

Cell type	Monocrystalline
Number of cells	36
Dimensions	780x670x30mm
Weight	5.9kg
Glass	3.2mm Tempered Glass
Frame	Silver/Black Anodized Aluminium Alloy
Junction Box	IP67
Cable	Optional
Connector	Optional

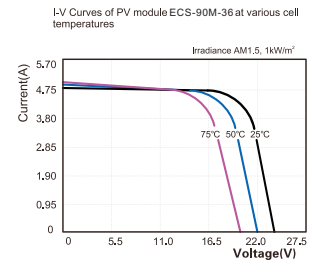
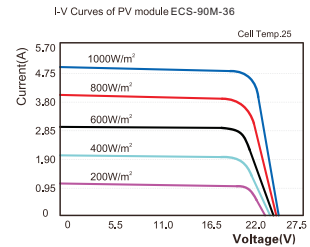
Dimensions in brackets are in inches.
Un-bracketed dimensions are in millimeters.
Unit:mm[in.]



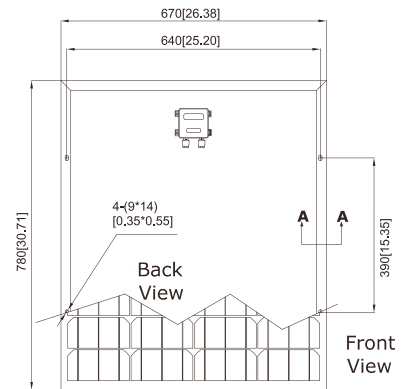
Junction Box
Top View (Lidopen)



I-V CURVES



DIMENSIONS OF PV MODULES (mm)



Eco Solar energy®
Powering Future