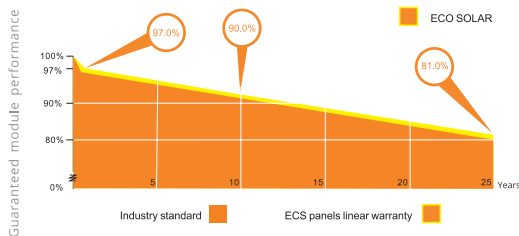


**SOLAR MODULE**  
**ECS-20P-36**  
**POLYCRYSTALLINE MODULE**  
**20W / 36 Cells / 5 Bus bars**



**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)	20W
Power tolerance	0 - 3%
Voltage at Pmax (Vmp)	18.3V
Current at Pmax (Imp)	1.11A
Open-circuit voltage (Voc)	23.2V
Short-circuit current (Isc)	1.14A

### 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

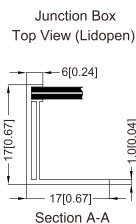
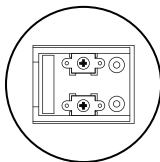
### MAXIMUM RATINGS

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

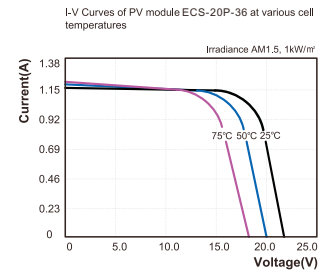
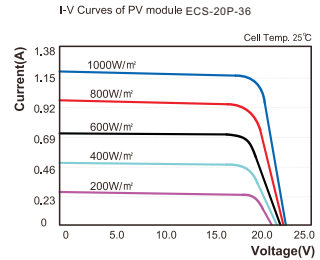
### MECHANICAL CHARACTERISTICS

Cell type	Polycrystalline
Number of cells	36
Dimensions	435x356x17mm
Weight	1.7 kg
Glass	3.2mm Tempered Glass
Frame	Silver/Black Anodized Aluminium Alloy
Junction Box	IP67
Cable	Optional
Connector	Optional

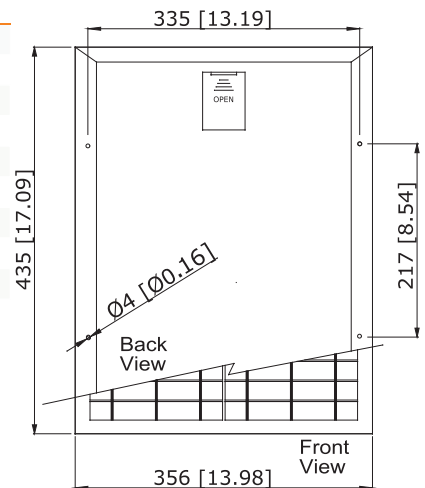
Dimensions in brackets are in inches.  
Un-bracketed dimensions are in millimeters.  
Unit:mm[in.]



### I-V CURVES



### DIMENSIONS OF PV MODULES (mm)



**Eco Solar energy®**  
Powering Future