



## ECS-180/185/190/195/200/205D Mono-crystalline PV Module

### Features

- € High conversion efficiency through advanced manufacturing technology
- € Excellent performance under weak light conditions (mornings, evenings and cloudy days)
- € Withstand snow loads up to 5400 Pa and wind loads up to 2400 Pa under extreme temperature
- € 10 years product warranty and 25 years performance warranty ensure reliability of modules
- € Easy installation



### Certificates

- € Manufactured according to International Quality Management System Standard: ISO 9001
- € Certified by CE, TÜV, IEC 61215, IEC 61730, MCS



Website:  
[www.ecsolar.com](http://www.ecsolar.com)

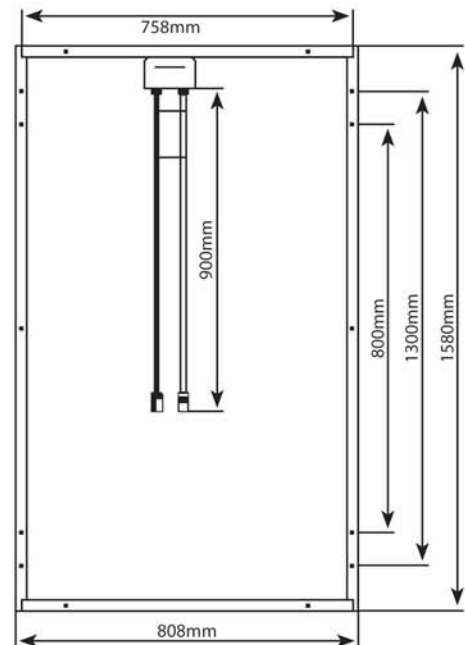
**ECSOLAR (Wuxi Saijing Solar Co., Ltd)**  
Industrial Park C, Guanlin town, Yixing city, Jiangsu Province, P. R. China  
Tel: +86 25 8659 2702 Fax: +86 25 8659 2703 E-mail: [sales@ecsolar.com](mailto:sales@ecsolar.com)

## Electrical Characteristics under STC\*

Module Type	ECS-180D	ECS-185D	ECS-190D	ECS-195D	ECS-200D	ECS-205D
Maximum Power-P <sub>max</sub> (Wp)	180	185	190	195	200	205
Voltage at Maximum Power-V <sub>mp</sub> (V)	36.5	36.7	36.8	36.9	37.1	37.3
Current at Maximum Power -I <sub>mp</sub> (A)	4.93	5.04	5.16	5.29	5.39	5.5
Open Circuit Voltage-V <sub>oc</sub> (V)	44.3	44.5	44.6	44.7	44.8	44.9
Short Circuit Current-I <sub>sc</sub> (A)	5.36	5.47	5.59	5.72	5.83	5.96
Module Efficiency- $\eta_m$ (%)	14.1	14.5	14.9	15.2	15.6	16
Power Tolerance (%)	0/+3	0/+3	0/+3	0/+3	0/+3	0/+3

## Mechanical Characteristics

Cell Type	Mono-crystalline	125x125 mm (5 inches)
Number of Cells	72 (6x12)	
Dimension	1580x808x40mm (62.20x31.81x1.57 inches)	
Weight	15.5 kg	
Front Glass	Low Iron Tempered Glass	
Encapsulant	EVA	
Frame	Anodized Aluminum Alloy	



## Temperature Characteristics

NOCT*	45±2°C
Temperature Coefficient of P <sub>max</sub>	-0.50%/°C
Temperature Coefficient of V <sub>oc</sub>	-0.35%/°C
Temperature Coefficient of I <sub>sc</sub>	0.060%/°C

## Maximum System Ratings

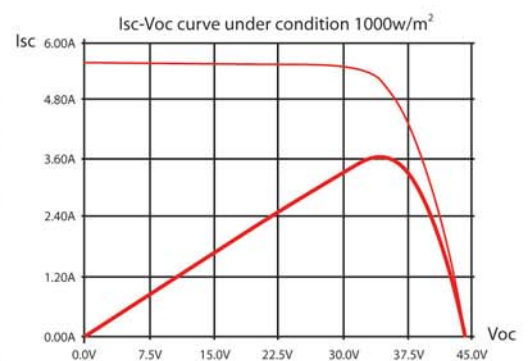
Operating Temperature	-40°C to +80°C
Maximum System Voltage	1000V DC
Maximum Series Fuse Rating	10A

## Warranty

10 years product warranty

10 years warranty on 90% power output

25 years warranty on 80% power output



\*STC (Standard Testing Conditions): Irradiance 1000 W/m<sup>2</sup>, cell temperature 25 °C, AM=1.5

\*NOCT (Nominal Operating Cell Temperature): Irradiance 800 W/m<sup>2</sup>, ambient temperature 20 °C, wind speed 1 m/s

The specifications in this datasheet are subjected to change without prior notice