



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

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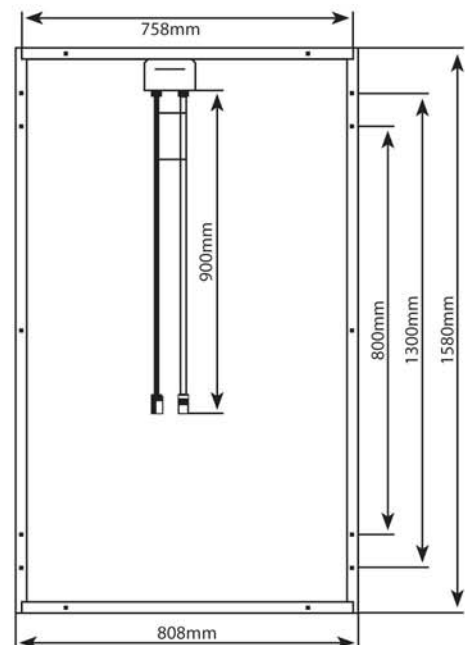
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Electrical Characteristics under STC*

Module Type	ECS-180D	ECS-185D	ECS-190D	ECS-195D	ECS-200D	ECS-205D
Maximum Power-P _{max} (Wp)	180	185	190	195	200	205
Voltage at Maximum Power-V _{mp} (V)	36.5	36.7	36.8	36.9	37.1	37.3
Current at Maximum Power -I _{mp} (A)	4.93	5.04	5.16	5.29	5.39	5.5
Open Circuit Voltage-V _{oc} (V)	44.3	44.5	44.6	44.7	44.8	44.9
Short Circuit Current-I _{sc} (A)	5.36	5.47	5.59	5.72	5.83	5.96
Module Efficiency- η_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 _{max}	-0.50%/°C
Temperature Coefficient of V _{oc}	-0.35%/°C
Temperature Coefficient of I _{sc}	0.060%/°C

Maximum System Ratings

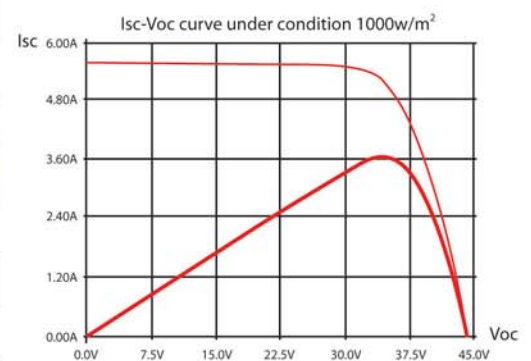
Operating Temperature	-40°C to +80°C
Maximum System Voltage	1000V DC
Maximum Series Fuse Rating	10A

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/m², cell temperature 25 °C, AM=1.5

*NOCT (Nominal Operating Cell Temperature): Irradiance 800 W/m², ambient temperature 20 °C, wind speed 1 m/s

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