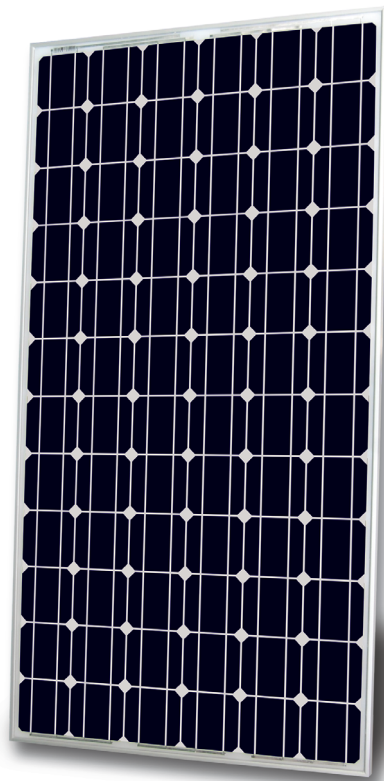




ECS-180/185/190/195/200/205D Mono-crystalline PV Module

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 and approved by CE, TUV, IEC 61215, IEC 61730, MCS and CEC

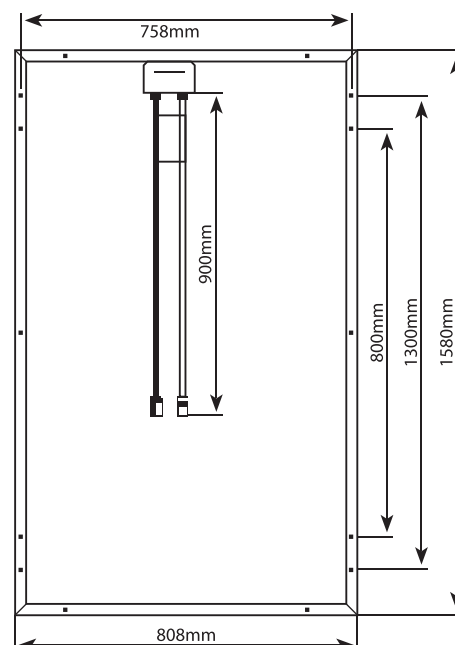


Electrical Characteristics under STC*

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 125×125 mm (5 inches)
Number of Cells	72 (6×12)
Dimension	1580×808×40mm (62.20×31.81×1.57 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

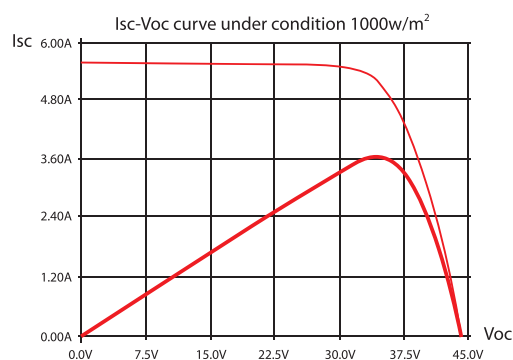
Operating Temperature	-40°C to +80°C
Maximum System Voltage	1000V DC
Maximum Series Fuse Rating	10A

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