

ECS-185/190/195/200/205/210D72 All-black 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 Management System Standard
Quality Management system: ISO9001
Environmental Management System: ISO14001
Occupational Health and Safety Management System: OHSAS18001
- ☛ Certified and approved by CE, TUV, IEC 61215, IEC 61730, MCS, CEC and PV CYCLE

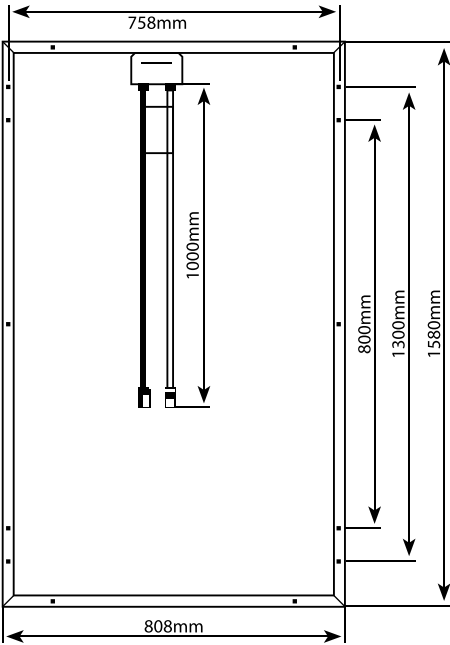


Electrical Characteristics under STC*

Module Type	ECS-185D72	ECS-190D72	ECS-195D72	ECS-200D72	ECS-205D72	ECS-210D72
Maximum Power-Pmax (Wp)	185	190	195	200	205	210
Voltage at Maximum Power-Vmp (V)	36.3	36.7	37.2	37.6	38.1	38.6
Current at Maximum Power -Imp (A)	5.11	5.18	5.25	5.32	5.39	5.45
Open Circuit Voltage-Voc (V)	45	45.2	45.4	45.9	46.2	46.4
Short Circuit Current-Isc (A)	5.47	5.56	5.65	5.72	5.82	5.93
Module Efficiency- η_m (%)	14.5	14.9	15.2	15.6	16	16.4
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

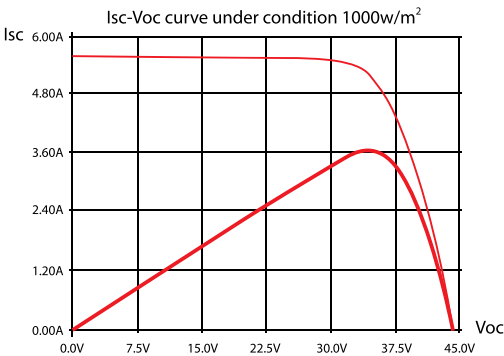
NOCT*	45±2°C
Temperature Coefficient of Pmax (%)	-0.44/°C
Temperature Coefficient of Voc (%)	-0.33/°C
Temperature Coefficient of Isc (%)	0.055/°C

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