

ECS-300/305/310/315/320/325M72 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
- ☛ 12 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-300M72	ECS-305M72	ECS-310M72	ECS-315M72	ECS-320M72	ECS-325M72
Maximum Power-Pmax (Wp)	300	305	310	315	320	325
Voltage at Maximum Power-Vmp (V)	36.4	36.5	36.7	36.9	37.1	37.4
Current at Maximum Power -Imp (A)	8.25	8.36	8.44	8.54	8.63	8.71
Open Circuit Voltage Voc (V)	45.0	45.1	45.2	45.3	45.4	46.3
Short Circuit Current-Isc (A)	8.56	8.67	8.75	8.84	8.93	9.07
Module Efficiency- η_m (%)	15.5	15.8	16.0	16.2	16.5	16.8
Power Tolerance (%)	0/+3	0/+3	0/+3	0/+3	0/+3	0/+3

Mechanical Characteristics

Cell Type	Mono-crystalline	156x156 mm (6 inches)
Number of Cells	72 (6x12)	
Dimension	1956x990x40 mm (77.01x38.98x1.57 inches)	
Weight	23.0 kg	
Front Glass	Low Iron Tempered Glass	
Encapsulant	EVA	
Frame	Anodized Aluminum Alloy	

Temperature Characteristics

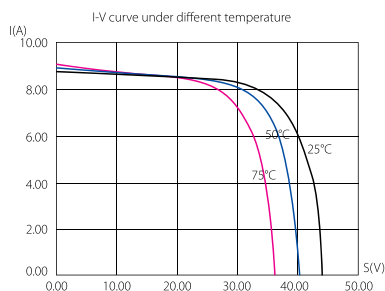
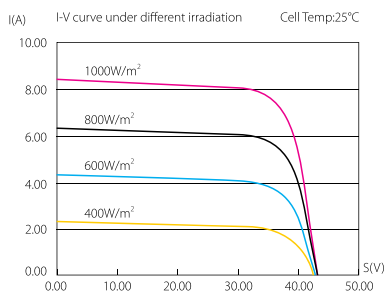
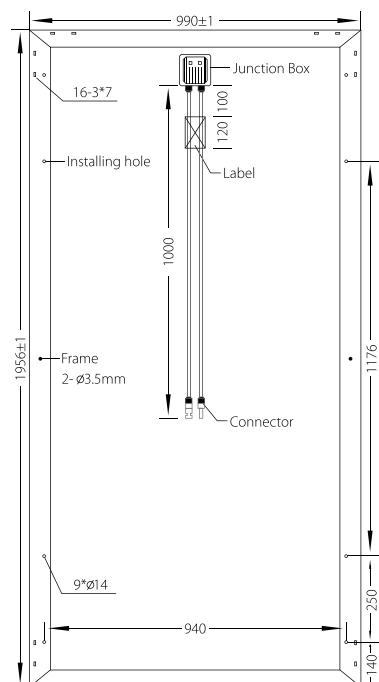
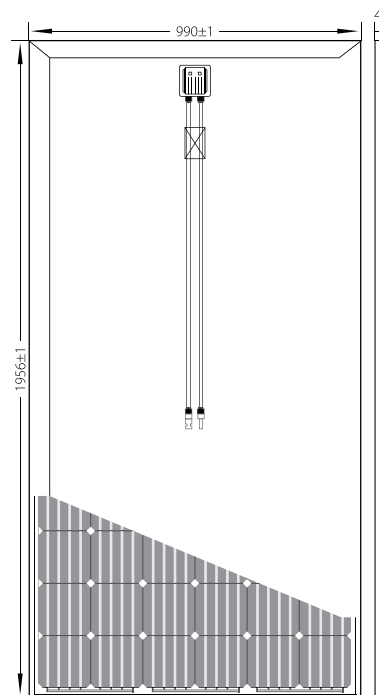
NOCT*	45 \pm 2 $^{\circ}$ C
Temperature Coefficient of Pmax (%)	-0.40/ $^{\circ}$ C
Temperature Coefficient of Voc (%)	-0.31/ $^{\circ}$ C
Temperature Coefficient of Isc (%)	0.04/ $^{\circ}$ C

Maximum System Ratings

Operating Temperature	-40 $^{\circ}$ C to +80 $^{\circ}$ C
Maximum System Voltage	1000V DC
Maximum Series Fuse Rating	16A

Warranty

12 years product warranty
12 years warranty on 90% power output
25 years warranty on 80% power output



*STC (Standard Testing Conditions): Irradiance 1000 W/m 2 , cell temperature 25 $^{\circ}$ C, AM=1.5
ambient temperature 20 $^{\circ}$ C, wind speed 1 m/s

*NOCT (Nominal Operating Cell Temperature): Irradiance 800 W/m 2 ,
The specifications in this datasheet are subjected to change without prior notice