



## ECS-295/300/305/310/315/320M72 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

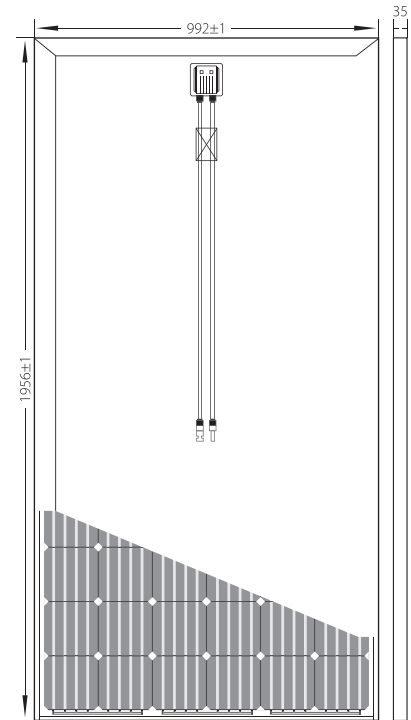


## Electrical Characteristics under STC\*

Module Type	ECS-295M72	ECS-300M72	ECS-305M72	ECS-310M72	ECS-315M72	ECS-320M72
Maximum Power-Pmax (Wp)	295	300	305	310	315	320
Voltage at Maximum Power-Vmp (V)	36.3	36.4	36.5	36.7	36.9	37.1
Current at Maximum Power -Imp (A)	8.13	8.25	8.36	8.44	8.54	8.63
Open Circuit Voltage Voc (V)	44.9	45	45.1	45.2	45.3	45.4
Short Circuit Current-Isc (A)	8.45	8.56	8.67	8.75	8.84	8.93
Module Efficiency- $\eta_m$ (%)	15.2	15.5	15.8	16	16.2	16.2
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	1956x992x35 mm (77.01x39.06x1.38 inches)
Weight	23.0 kg
Front Glass	Low Iron Tempered Glass
Encapsulant	EVA
Frame	Anodized Aluminum Alloy



## Temperature Characteristics

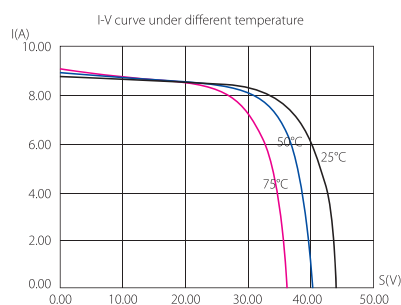
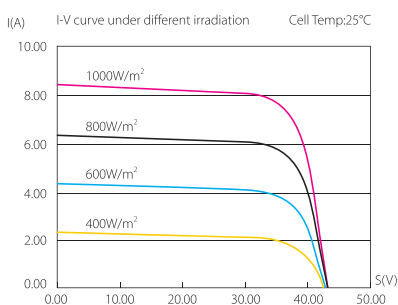
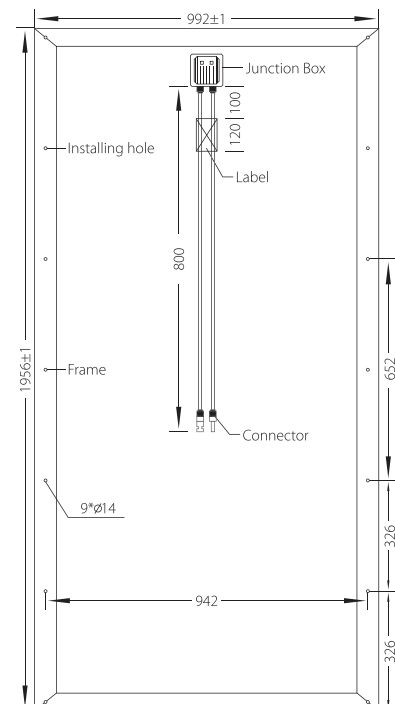
NOCT*	45±2°C
Temperature Coefficient of Pmax (%)	-0.40/°C
Temperature Coefficient of Voc (%)	-0.31/°C
Temperature Coefficient of Isc (%)	0.04/°C

## Maximum System Ratings

Operating Temperature	-40°C to +80°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<sup>2</sup>, cell temperature 25 °C, AM=1.5  
ambient temperature 20 °C, wind speed 1 m/s

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