



## ECS-230/235/240/245/250/255P60 Poly-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, INMETRO, TUV, IEC 61215, IEC 61730, MCS, CEC and PV CYCLE

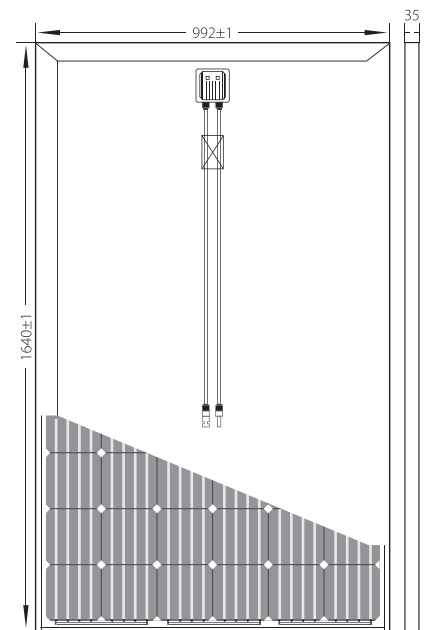


## Electrical Characteristics under STC\*

Module Type	ECS-230P60	ECS-235P60	ECS-240P60	ECS-245P60	ECS-250P60	ECS-255P60
Maximum Power-Pmax (Wp)	230	235	240	245	250	255
Voltage at Maximum Power-Vmp (V)	29.3	29.4	29.7	30.1	30.4	30.8
Current at Maximum Power-Imp (A)	8.02	8.17	8.25	8.32	8.39	8.44
Open Circuit Voltage Voc (V)	37.2	37.3	37.4	37.5	37.6	37.8
Short Circuit Current-Isc (A)	8.38	8.52	8.64	8.73	8.79	8.85
Module Efficiency-ηm (%)	14.4	14.8	15.1	15.4	15.7	16
Power Tolerance (%)	0/+3	0/+3	0/+3	0/+3	0/+3	0/+3

## Mechanical Characteristics

Cell Type	Poly-crystalline	156×156 mm (6 inches)
Number of Cells	60 (6×10)	
Dimension	1640×992×50 mm (64.57×39.06×1.97 inches)	
Weight	20.0 kg	
Front Glass	Low Iron Tempered Glass	
Encapsulant	EVA	
Frame	Anodized Aluminum Alloy	



## Temperature Characteristics

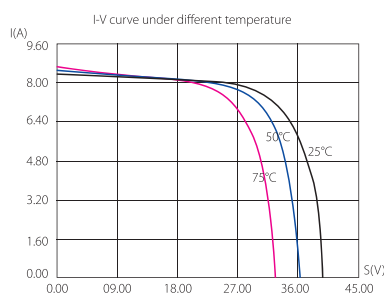
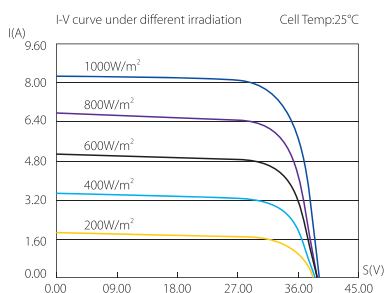
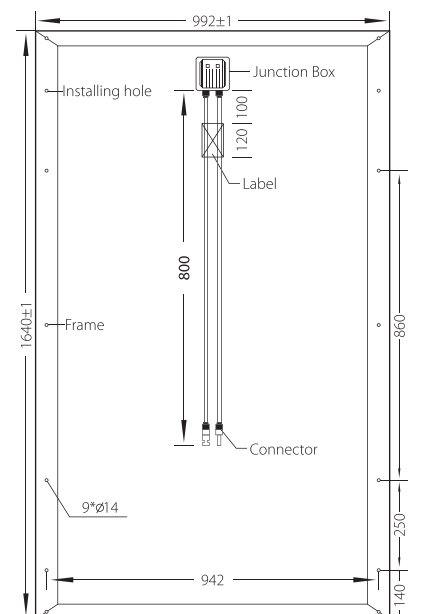
NOCT*	45±2°C
Temperature Coefficient of Pmax (%)	-0.40/°C
Temperature Coefficient of Voc (%)	-0.31/°C
Temperature Coefficient of Isc (%)	0.04/°C

## 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