

## ESM230S-156

### MONOCRYSTALLINE SOLAR MODULE



High module conversion efficiency through superior, manufacturing technology



Easy installation and handling for various applications



Entire module certified to withstand high wind loads (2400 Pa) and snow loads (5400 Pa)



ISO9001, OHSAS18001, ISO14001



An EverExceed high-power residential solar module is an aesthetic addition to most roofs

#### ENGINEERING EXCELLENCE

The perfect combination of high performance and design

#### ADVANCED AESTHETICS

Has an elegant appearance that blends beautifully with your home roof line

#### DURABLE

Provides long life and enhanced cell performance

#### HIGH PERFORMANCE

Uses advanced surface texturing to improve efficiency



EverExceed PV modules offer BTS-leading performance for a variety of applications

#### Power your application

When you choose EverExceed, you get more well-engineered products, you also get our proven reliability, outstanding customer service and the assurance of our 25-year limited warranty

## 230 Watt

### Electrical Characteristics

|                           |                         |
|---------------------------|-------------------------|
| Type of Cell              | Monocrystalline silicon |
| Cell Size(mm)             | 156x156mm               |
| Module Efficiency         | 17.56%                  |
| Cell Configuration        | 48(6x8)                 |
| Size of module (mm)       | 1320x992x35mm           |
| Weight per piece (Kg)     | 13.4Kg                  |
| Maximum power (Wp)        | 230W                    |
| Maximum power voltage (V) | 25.4V                   |
| Maximum power current (A) | 9.06A                   |
| Open circuit voltage (V)  | 30.6V                   |
| Short circuit current (A) | 9.63A                   |
| Tolerance of Pmax         | 0~+5W                   |

### Standard Operating Conditions

|                                     |                    |
|-------------------------------------|--------------------|
| Maximum system voltage (V)          | 1000V              |
| Temperature coefficients of Isc (%) | 0.05%/°C           |
| Temperature coefficients of Voc (%) | -0.31%/°C          |
| Temperature coefficients of Pm (%)  | -0.41%/°C          |
| NOCT(°C)                            | 45°C±2°C           |
| Temperature range                   | -40°C to +85°C     |
| Surface maximum load capacity       | 60m/s (200kg/sq.m) |
| Series fuse rating                  | 15A                |

### Other Characteristics

|                                 |  |
|---------------------------------|--|
| Junction box type               | Ip67 rated   |
| Connectors and cables type      | 4mm <sup>2</sup>                                       |
| Length of cables (mm)           | 900mm  |
| Frame (material, corners, etc.) | Anodized aluminum alloy                                |
| Glass                           | High transmissivity low-iron<br>3.2 mm toughened glass |
| FF (%)                          | ≥ 78.09%   |

### QUALIFICATIONS

|     |     |           |           |           |      |
|-----|-----|-----------|-----------|-----------|------|
| IEC | DVE | ISO 9001  | IEC 61215 | IEC 61730 | RoHS |
| CE  | EMC | ISO 14001 |           |           |      |



10 years material and workmanship guarantee

95% power output guarantee for 5 years  
90% power output guarantee for 10 years  
80% power output guarantee for 25 years

EverExceed will not accept responsibility for damage caused to other equipment

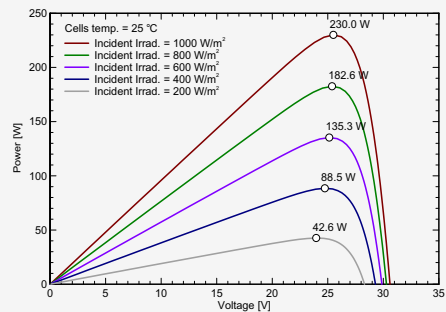
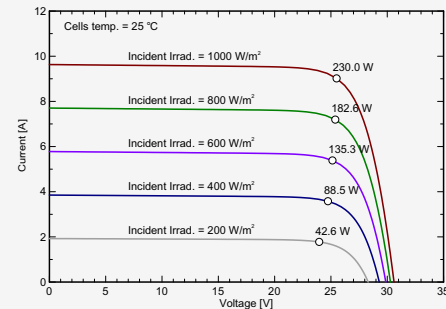
Contact EverExceed to receive our latest product information

5-year  
95% power output

10-year  
90% power output

25-year  
80% power output

### Characteristics (Module I-V Graph 230W)



STC: Irradiance 1000W/m<sup>2</sup>, Module temperature 25°C, AM1.5 spectrum.

### Dimension

