

## 156 Series Monocrystalline Solar Module

235W,240W,245W,250W,255W



High Module Conversion Efficiency



Easy Installation and Handling for Various Applications



Withstanding Mechanical Load up to 5400 Pa



Conform with PV Standards: IEC 61215:2005, IEC 61730:2004, UL 1703



ISO9001, OHSAS18001, ISO14001



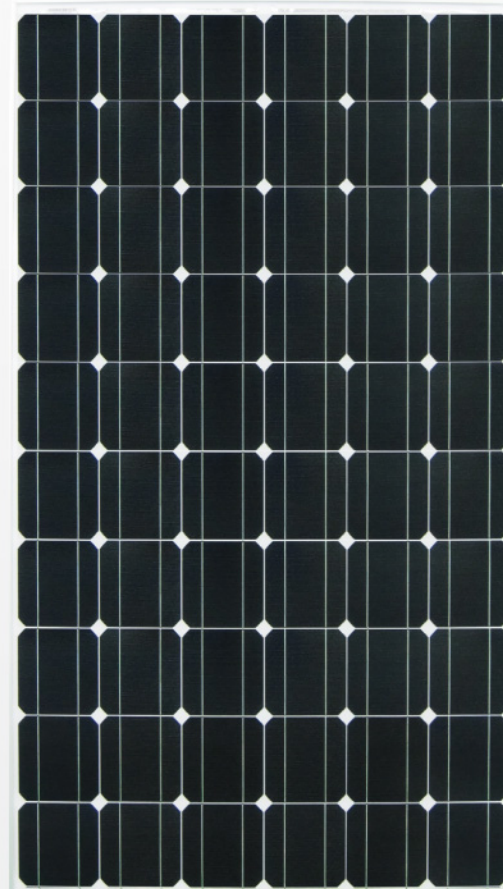
We provide a 10 years material and workmanship guarantee for our modules. In addition, a 90%-power-output guarantee for 10 years and a 80%-power-output guarantee for 25 years of the modules life are provided .



**10-year**  
 material & workmanship

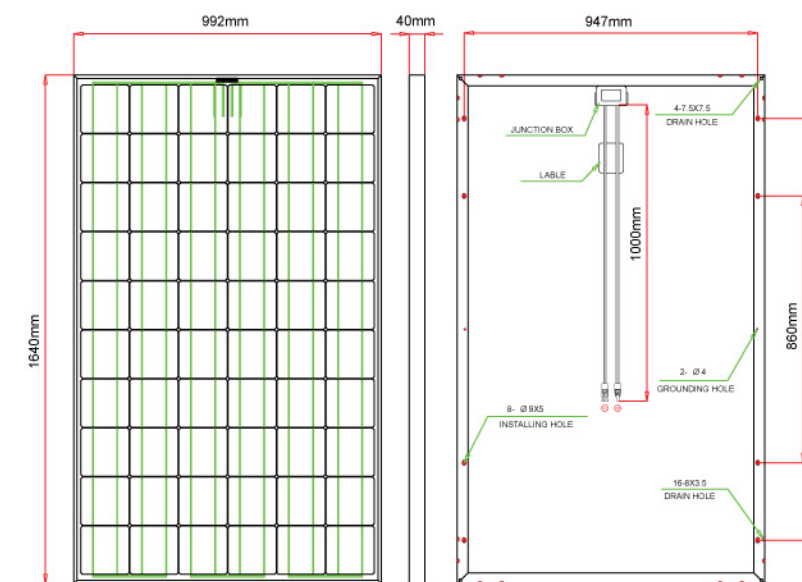
**10-year**  
 90% power output

**25-year**  
 80% power output



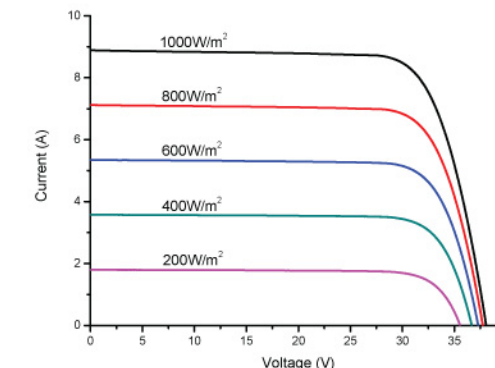
235W,240W,245W,250W,255W

### Dimension



Drawing Only for Reference

### I-V Curves



### Efficiency at Varied Irradiation

| Irradiance | 200W/m <sup>2</sup> | 400W/m <sup>2</sup> | 600W/m <sup>2</sup> | 800W/m <sup>2</sup> | 1000W/m <sup>2</sup> |
|------------|---------------------|---------------------|---------------------|---------------------|----------------------|
| Efficiency | 15.7%               | 16.0%               | 15.9%               | 15.9%               | 15.7%                |

### Electrical Characteristics

|                               | JC235S-24/Db | JC240S-24/Db | JC245S-24/Db | JC250S-24/Db | JC255S-24/Db |
|-------------------------------|--------------|--------------|--------------|--------------|--------------|
| Maximum Power ( Pmax )        | 235 W        | 240 W        | 245 W        | 250 W        | 255 W        |
| Power Tolerance               | ±3%          | ±3%          | ±3%          | ±3%          | ±3%          |
| Module Efficiency             | 14.46%       | 14.78%       | 15.08%       | 15.38%       | 15.70%       |
| Maximum Power Current ( Imp ) | 7.98 A       | 8.16 A       | 8.17 A       | 8.26 A       | 8.36 A       |
| Maximum Power Voltage ( Vmp ) | 29.5 V       | 29.5 V       | 30.0 V       | 30.3 V       | 30.5 V       |
| Short Circuit Current ( Isc ) | 8.56 A       | 8.71 A       | 8.72 A       | 8.78 A       | 8.89 A       |
| Open Circuit Voltage ( Voc )  | 37.2 V       | 37.2 V       | 37.8 V       | 37.8 V       | 38.1 V       |

Values at Standard Test Conditions STC ( Air Mass AM1.5, Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C )

### Temperature Coefficient

|                                             |             |
|---------------------------------------------|-------------|
| Temperature Coefficient of Voc              | -0.3109%/°C |
| Temperature Coefficient of Isc              | 0.0348%/°C  |
| Temperature Coefficient of Pmax             | -0.4310%/°C |
| Nominal Operating Cell Temperature ( NOCT ) | 45°C±2°C    |

### Maximum Ratings

|                            |                            |
|----------------------------|----------------------------|
| Operating Temperature      | -40 °C to +85 °C           |
| Maximum System Voltage     | 1000VDC (EU) / 600VDC (US) |
| Maximum Series Fuse Rating | 20A(EU)/ 15A(US)           |

### Mechanical Characteristics

|                            |                                                           |
|----------------------------|-----------------------------------------------------------|
| Cell Type                  | 156 x 156 mm Monocrystalline, 60 ( 6 x 10 ) pcs in series |
| Glass                      | High Transmission, Low Iron, Tempered Glass               |
| Frame                      | Anodized Aluminum Alloy                                   |
| Junction Box               | IP65 rated, with bypass diodes                            |
| Dimension                  | *1640 x 992 x 40 mm                                       |
| Cable Length               | 1000 mm                                                   |
| Weight                     | 20 Kg                                                     |
| Installation Hole Location | See Drawing Above                                         |

### Packing Information

|                       |       |       |       |
|-----------------------|-------|-------|-------|
| Container             | 20'GP | 40'GP | 40'HQ |
| Pallets per Container | 12    | 28    | 28    |
| Pieces per Container  | 300   | 700   | 770   |