



## HIGHWAY

# HT60-156M

## HT60-156M(V) \* V means 1500V module

### Black Module Technology

### 295W-315W

#### Comprehensive and first-rate certification system

IEC61215:2016, IEC61730:2016 Latest Standard  
ISO9001, ISO14001 and OHSAS18001, meeting the  
highest international standards  
Strict quality control



IEC 61215:2016  
IEC 61730:2016



Advanced surface treatment, less surface reflection and 5BB cell design can reduce the series resistance and improve the module



19.4%  
Module Efficiency



Designed for high voltage systems of up to 1500 VDC, increasing the string length of solar systems and saving on BoS costs



Certified to withstand dynamic mechanical load 1000 Pascal



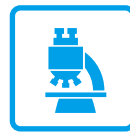
Higher module's output power



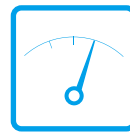
PID resistant



Ammonia corrosion resistant  
Salt Mist corrosion resistant



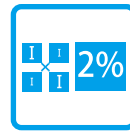
Microcrack resistant  
Triple EL tested of high quality control



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

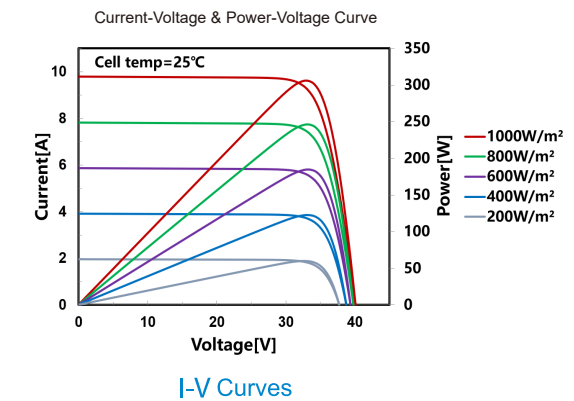
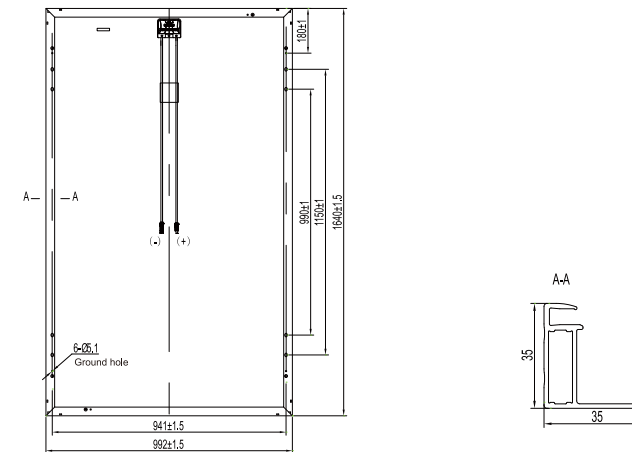


Strict quality control, meeting the highest international standards: ISO 9001, ISO14001



All the modules are sorted and packaged by amperage, reducing mismatch losses and maximizing system output.

#### Engineering Drawing



#### Electrical Characteristics

| Module                          | HT60-156M / HT60-156M(V) |       |       |       |       |
|---------------------------------|--------------------------|-------|-------|-------|-------|
| Maximum Power at STC (Pmax)     | 295W                     | 300W  | 305W  | 310W  | 315W  |
| Open-Circuit Voltage (Voc)      | 39.7V                    | 39.9V | 40.1V | 40.3V | 40.5V |
| Short-Circuit Current (Isc)     | 9.64A                    | 9.71A | 9.78A | 9.85A | 9.92A |
| Optimum Operating Voltage (Vmp) | 32.4V                    | 32.8V | 33.2V | 33.6V | 34.0V |
| Optimum Operating Current (Imp) | 9.12A                    | 9.16A | 9.21A | 9.25A | 9.29A |
| Module Efficiency               | 18.1%                    | 18.4% | 18.8% | 19.1% | 19.4% |
| Power Tolerance                 | 0 ~ +5W                  |       |       |       |       |
| Maximum System Voltage          | 1000V/1500V DC(IEC)      |       |       |       |       |
| Maximum Series Fuse Rating      | 15A                      |       |       |       |       |
| Operating Temperature           | -40 °C to +85 °C         |       |       |       |       |

STC: Irradiance 1000W/m², module temperature 25°C, AM=1.5  
Optional black frame or white frame module according to customer requirements

#### NOCT

| Module                        | HT60-156M / HT60-156M(V) |       |       |       |       |
|-------------------------------|--------------------------|-------|-------|-------|-------|
| Maximum Power                 | 218W                     | 221W  | 225W  | 229W  | 232W  |
| Open Circuit Voltage (Voc)    | 37.0V                    | 37.2V | 37.4V | 37.6V | 37.8V |
| Short Circuit Current (Isc)   | 7.79A                    | 7.84A | 7.90A | 7.96A | 8.01A |
| Maximum Power Voltage (Vmp)   | 30.2V                    | 30.5V | 30.9V | 31.3V | 31.7V |
| Maximum Circuit Current (Imp) | 7.21A                    | 7.24A | 7.27A | 7.31A | 7.33A |

NOCT: Irradiance 800W/m², ambient temperature 20°C, wind speed 1 m/s

#### Mechanical Characteristics

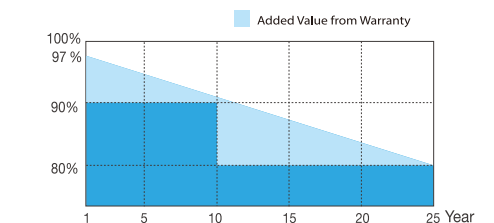
|                         |                                       |
|-------------------------|---------------------------------------|
| Solar Cells             | Monocrystalline 156.75 × 156.75mm     |
| No. of Cells            | 60 (6 × 10)                           |
| Dimensions              | 1640 × 992 × 35mm (64.6 × 39 × 1.4in) |
| Weight                  | 18.5kg (40.8lbs)                      |
| Front Glass             | High transmission tempered glass      |
| Frame                   | Anodized aluminium alloy              |
| Junction Box            | IP67                                  |
| Cable                   | 4mm² (IEC)                            |
| Connectors              | MC4/MC4 Compatible                    |
| Packaging Configuration | 30pcs/box, 910pcs/40'HQ Container     |

#### Temperature Characteristics

|                                 |         |           |
|---------------------------------|---------|-----------|
| Temperature Coefficient of Pmax | γ (Pm)  | -0.39%/°C |
| Temperature Coefficient of Voc  | β (Voc) | -0.29%/°C |
| Temperature Coefficient of Isc  | α (Isc) | 0.049%/°C |

#### Warranty

10ys 10-year product warranty  
25ys 25-year warranty on power output



#### Information Box

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ANONIM SIRKETI  
Lianyungang ShenZhou  
New Energy Co., Ltd.