

## SF-P15/72

156.75x156.75mm 5bb  
Polycrystalline Module

320-355W



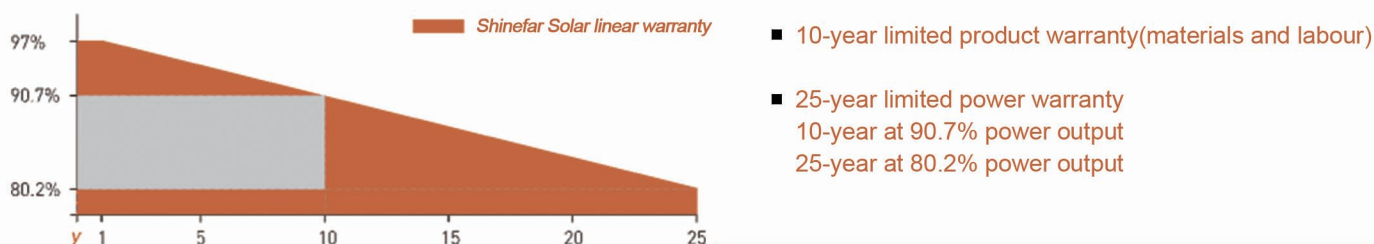
**355W**  
Max Power Output

**18.3%**  
Max Module Efficiency

**0~+5W**  
Power Output Guarantee

-  High conversion efficiency due to top quality wafers and advanced cell technology, Ideal choice for large scale ground installation
-  Through sand, salt fog, ammonia and other weather resistance test, adapt to harsh outdoor environment
-  Selected encapsulating material and stringent production process control ensure the product is highly PID resistant and snail trails free
-  Enhanced frame design, more excellent component load capacity
-  Highly transparent self cleaning glass brings additional yield and easy maintenance

Shinefar Solar is one of leading global manufacturers of solar modules and solar systems. Our solar modules production capacity reaches 1.2GW and we have our own fully automated production line which ensures the quality is strict and stable. We can produce market mainstream solar modules, including large size, MBB, high efficient single glass and double glass modules, both mono and poly, full cells and half cut cells. All our modules have TUV, CE, SGS, INMETRO, CQC, ISO9001, ISO14001 and OHSAS18001 Certifications. Our solar modules have been exported to Europe, Vietnam, Brazil, Morocco and Many other markets since the year of 2005.



**(STC\*) Electrical Specification**

|                            |          |                              |       |       |       |       |       |       |       |
|----------------------------|----------|------------------------------|-------|-------|-------|-------|-------|-------|-------|
| Max Power                  | Pmax (W) | 320                          | 325   | 330   | 335   | 340   | 345   | 350   | 355   |
| Max Power Voltage          | Vmp (V)  | 37.30                        | 37.60 | 37.80 | 38.00 | 38.20 | 38.90 | 39.20 | 39.49 |
| Max Power Current          | Imp (A)  | 8.58                         | 8.64  | 8.73  | 8.82  | 8.90  | 8.87  | 8.93  | 8.99  |
| Open Circuit Voltage       | Voc (V)  | 45.80                        | 46.00 | 46.20 | 46.40 | 46.60 | 47.30 | 47.60 | 47.90 |
| Short Circuit Current      | Isc (A)  | 9.15                         | 9.24  | 9.33  | 9.41  | 9.49  | 9.61  | 9.68  | 9.74  |
| Module Efficiency          | (%)      | 16.49                        | 16.70 | 17.00 | 17.30 | 17.50 | 17.80 | 18.00 | 18.30 |
| Dimensions of Module L*W*H | (mm)     | 1956x992x35                  |       |       |       |       |       |       |       |
| Weight                     | (kg)     | 21.0                         |       |       |       |       |       |       |       |
| Solar Cell Type            | (mm)     | Poly 156.75×156.75,72 cells  |       |       |       |       |       |       |       |
| Packaging                  | (pcs)    | 31/pallet,338 /20ft,840/40hq |       |       |       |       |       |       |       |
| Power Output Tolerance     | (W)      | 0 ~ +5                       |       |       |       |       |       |       |       |
| Operational Temperature    |          | -40~+85°C                    |       |       |       |       |       |       |       |
| Maximum System Voltage     |          | 1000V DC                     |       |       |       |       |       |       |       |
| Max Series Fuse Rating     |          | 20A                          |       |       |       |       |       |       |       |

\* Irradiance 1000W/m<sup>2</sup>, Module Temperature 25°C, Air Mass 1.5

**(NOCT\*) Electrical Specification**

|                       |          |       |       |       |       |       |       |       |       |
|-----------------------|----------|-------|-------|-------|-------|-------|-------|-------|-------|
| Max Power             | Pmax (W) | 235.9 | 241.2 | 245.0 | 248.9 | 252.7 | 256.7 | 261.0 | 264.6 |
| Max Power Voltage     | Vmp (V)  | 34.50 | 34.70 | 34.90 | 35.10 | 35.30 | 35.60 | 35.90 | 36.20 |
| Max Power Current     | Imp (A)  | 6.89  | 6.95  | 7.02  | 7.09  | 7.16  | 7.21  | 7.27  | 7.31  |
| Open Circuit Voltage  | Voc (V)  | 42.60 | 42.80 | 42.90 | 43.10 | 43.30 | 44.00 | 44.20 | 44.50 |
| Short Circuit Current | Isc (A)  | 7.39  | 7.46  | 7.53  | 7.60  | 7.66  | 7.73  | 7.79  | 7.84  |

\* Irradiance 800W/m<sup>2</sup>, Ambient Temperature 20°C, Wind Speed 1m/s

**Mechanical Data**

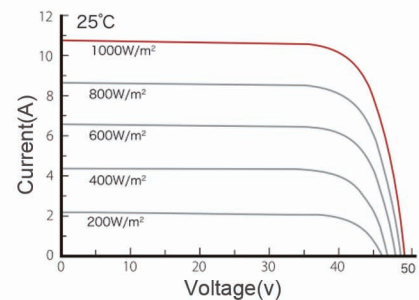
|                  |                                          |
|------------------|------------------------------------------|
| Glass            | 3.2mm High transparency solar glass      |
| Backsheet        | White or Black                           |
| Frame            | Silver /black anodized alu alloy         |
| J-Box            | IP68 Rated                               |
| Cable            | 4 mm <sup>2</sup> , 1100 mm (43.3inches) |
| Number of diodes | 3                                        |
| Wind/ Snow Load  | 2400Pa/5400Pa*                           |
| Connector        | MC4 Compatible                           |

\* For more details please check the installation manual of SF

**Temperature Ratings**

|                                           |           |
|-------------------------------------------|-----------|
| (NOCT) Nominal Operating Cell Temperature | 45±2°C    |
| (Isc) Temperature Coefficient of Isc      | +0.06%/°C |
| (Voc) Temperature Coefficient of Voc      | -0.30%/°C |
| (Pmax) Temperature Coefficient of Pmax    | -0.37%/°C |

Current-voltage(350W)



Power-voltage(350W)

