

POLYCRYSTALLINE SOLAR MODULE

310~320 Watt



PRODUCT | KEY FEATURES



Excellent module efficiency up to 17.3%



Positive tolerance of up to 5% delivers higher outputs reliability



Excellent weak light performance
Excellent performance under low light conditions



Current sorting process
System output maximized by reducing mismatch losses up to 2% with modules sorted & packaged by amperage



IP67 junction box available
long-term weather endurance



Heavy snow load up to 5400pa

THE BEST IN CLASS

Based on the core concept of creating value for society, customers and enterprises, we will become the leading supplier of photovoltaic products.

PRODUCT | WARRANTY & INSURANCE



- 97% in the first year, for years 2 through 25 years, 0.7% maximum decrease from module's nominal power output per year . To ensure no less than 80% after 25 years .
- 10- year material and workmanship warranty

PRODUCT & MANAGEMENT SYSTEM | CERTIFICATES

CERTIFICATIONS & STANDARD

IEC 61215/IEC61730: CE/TUV/JET

ISO9001:2008 | QUALITY MANAGEMENT SYSTEM

ISO14001:2004 | STANDARD FOR ENVIRONMENTAL MANAGEMENT SYSTEM

BS OHSAS 18001:2007



ABOUT FENGYUAN

ZhenJiang Fengyuan New Energy Technology Co.,Ltd.,established in June 26 2016, located in No.1 mingzhu south road, Youfang ,ZhenJiang ,Jiangsu Province,covers an area of 260 acres.

Now, we have 600 staff,mainly engaged in solar photovoltaic components manufacturing, sales and related technology research and development.As humans around the worldd advocate environmental protection,photovoltaic products will enter homes.We have achieved annual sales of 500MW modules.

ELECTRICAL DATA | STC

Electrical Data	FY310-24/Vd	FY315-24/Vd	FY320-24/Vd
Maximum Power at STC (Pmax)	310W	315W	320W
Optimum Operating Voltage (Vmp)	37.2V	37.7V	38.3V
Optimum Operating Current (Imp)	8.34A	8.36A	8.36A
Open Circuit Voltage (Voc)	45.6V	46.1V	46.7V
Short Circuit Current (Isc)	8.85A	8.87A	8.88A
Module Efficiency	16.0%	16.2%	16.5%
Operating Module Temperature	-40 °C to +85 °C		
Maximum System Voltage	1000 V DC (IEC)		
Maximum Series Fuse Rating	20 A		
Power Tolerance	0/+5 %		

STC: Irradiance 1000 W/m², module temperature 25 °C, AM=1.5;
Best in Class AAA solar simulator (IEC 60904-9) used, power measurement uncertainty is within +/- 3%

Noct	FY310-24/Vd	FY315-24/Vd	FY320-24/Vd
Maximum Power at NOCT (Pmax)	225W	228W	231W
Optimum Operating Voltage (Vmp)	32.8V	33.0V	33.2V
Optimum Operating Current (Imp)	6.85A	6.90A	6.96A
Open Circuit Voltage (Voc)	40.9V	41.1V	41.3V
Short Circuit Current (Isc)	7.27A	7.34A	7.42A

NOCT: Irradiance 800 W/m², ambient temperature 20 °C, AM=1.5, wind speed 1 m/s;
Best in Class AAA solar simulator (IEC 60904-9) used, power measurement uncertainty is within +/- 3%

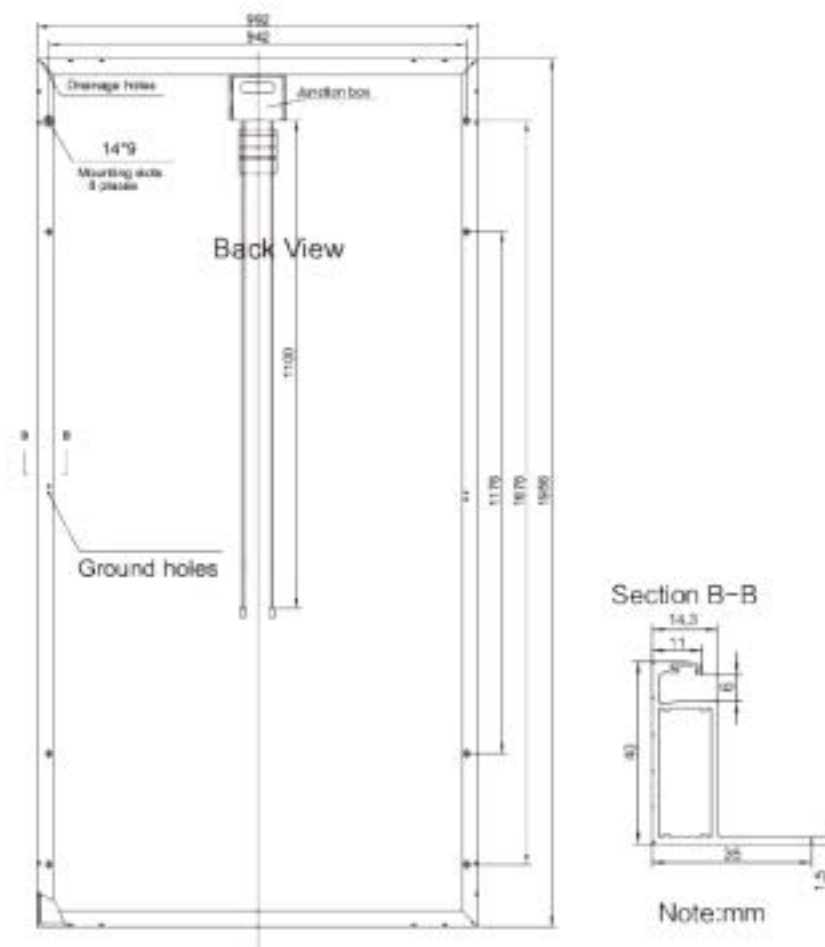
Temperature Characteristics

Nominal Operating Cell Temperature (NOCT)	45±2°C
Temperature Coefficient of Pmax	-0.43 %/°C
Temperature Coefficient of Voc	-0.33 %/°C
Temperature Coefficient of Isc	0.067 %/°C

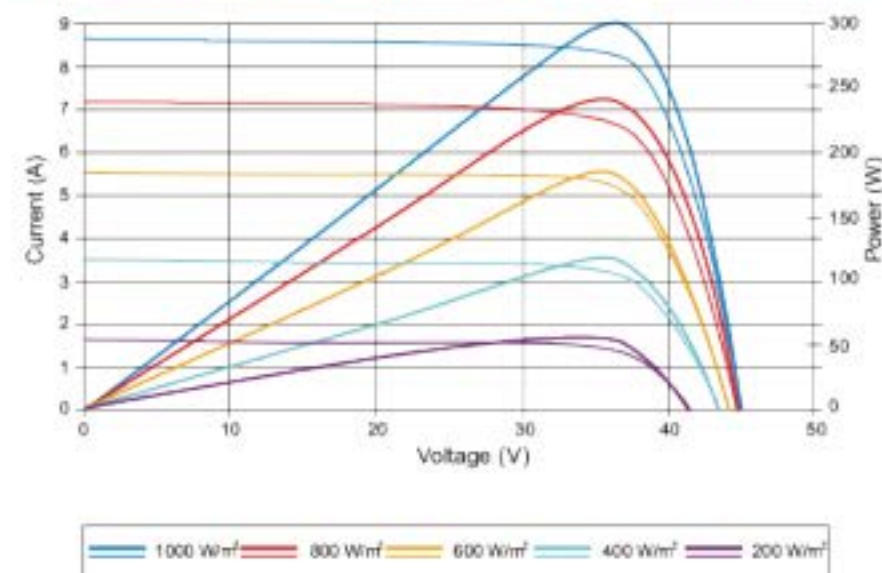
Mechanical Characteristics

Solar Cell	Polycrystalline silicon 156 × 156 mm
No. of Cells	72 (6 × 12)
Dimensions	1956 × 992 × 40mm
Weight	25.8 kg
Front Glass	4.0 mm tempered glass
Frame	Anodized aluminium alloy
Junction Box	IP67 rated (3 bypass diodes)
Output Cables	TUV (2 PFG 1169/08.07) 4.0 mm ² , symmetrical lengths (-) 1100mm and (+) 1100 mm
Connectors	TL connectors

MODULE | ENGINEERING DRAWING



Current-Voltage & Power-Voltage Curve (300-24)



Excellent performance under weak light conditions: at an irradiance intensity of 200³W/m (AM 1.5, 25 °C), 95.5% or higher of the STC efficiency (1000 W/m²) is achieved