POLYCRYSTALLINE SOLAR MODULE

295~305 Watt

PRODUCT | KEY FEATURES

Excellent module efficiency
up to 17.3%

Positive tolerance of up to
5% delivers higher outputs
reliablity

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 socielty, customers and enterprises,we will become the leading supplier of photovoltic 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,photovoltic products will enter homes.We have achieved annual sales of 500MW moudules.

ELECTRICAL DATA | STC

Electrical Data	FY305-24/Vd	FY300-24/Vd	FY295-24/Vd
Maximum Power at STC (Pmax)	305W	300W	295W
Optimum Operating Voltage (Vmp)	36.6V	36.1V	35.6V
Optimum Operating Current (Imp)	8.34A	8.32A	8.29A
Open Circuit Voltage (Voc)	44.9V	44.4V	43.7V
Short Circuit Current (Isc)	8.85A	8.82A	8.81A
Module Efficiency	15.7%	15.5%	15.2%
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	FY305-24/Vd	FY300-24/Vd	FY295-24/Vd
Maximum Power at NOCT (Pmax)	222 W	219 W	216 W
Optimum Operating Voltage (Vmp)	32.6 V	32.4 V	32.2 V
Optimum Operating Current (Imp)	6.81 A	6.75 A	6.70 A
Open Circuit Voltage (Voc)	40.8 V	40.6 V	40.5 V
Short Circuit Current (Isc)	7.19 A	7.14 A	7.07 A

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%

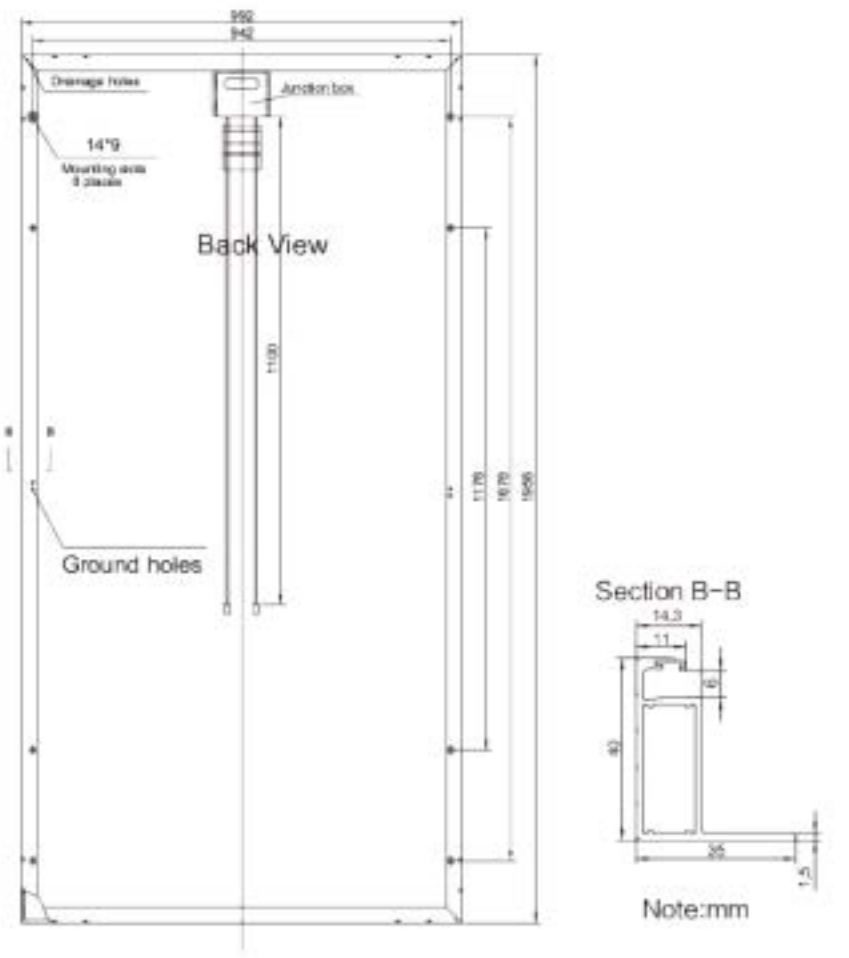
Temperature Characteristics

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

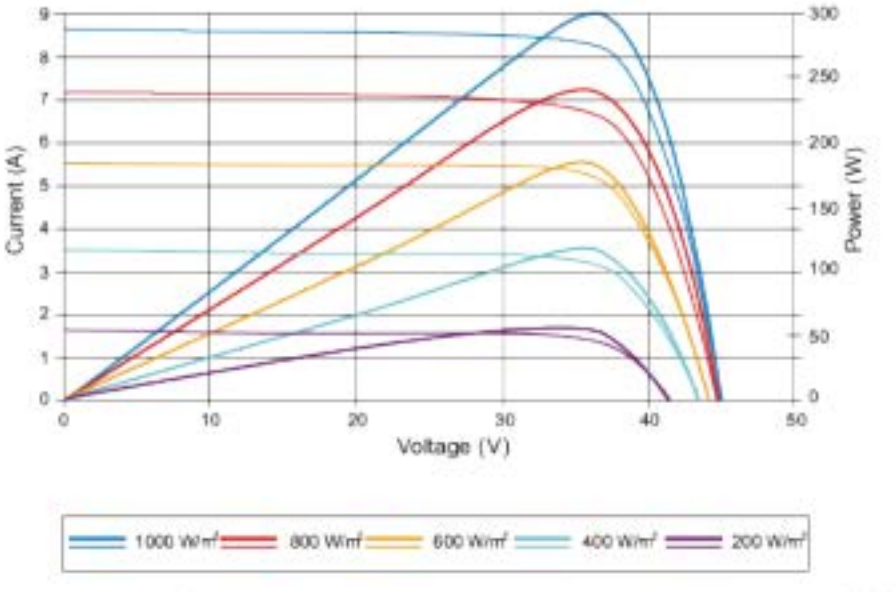
Mechanical Characteristics

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 mm², 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 irradiation intensity of 200W/m² (AM 1.5, 25 °C), 95.5% or higher of the STC efficiency (1000 W/m²) is achieved