

# 144片高效单晶硅半片太阳能组件

## 380~390瓦

### 144HALF-CELL MONO PERC MODULE

## 380~390Watt

### 全球领先的质量

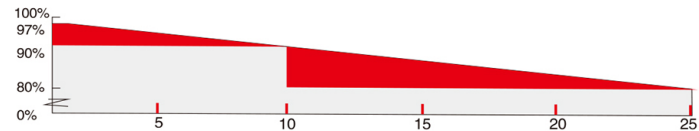
### Global leading quality

以持续为社会、客户、企业、员工创造价值为核心理念，力争成为行业顶尖的光伏产品领导品牌。

Based on the core idea of creating value for society, customers and enterprises, we strive for becoming the leading supplier of photovoltaic products.

### 产品 || 质保

### PRODUCT | WARRANTY&INSURANCE



第一年输出功率不低于标称功率的97%

Not less than 97% of nominal power in the first year.

第二年到第二十五年每年功率衰减不超过标称功率的0.7%

Annual power attenuation does not exceed 0.7% of nominal power from the 2nd year to the 25th year.

产品的材料和品质保证10年。

10- year material and workmanship warranty

### 产品 || 管理体系 || 认证

### PRODUCT&MANAGEMENT SYSTEM CERTIFICATES

产品质量管理体系认证ISO9001:2008

环境管理体系认证ISO14001:2004

IEC61215/IEC61730

TUV/JET/CEC

职业健康安全管理体系认证 BS OHSAS 18001:3007

CERTIFICATIONS&STANDARD

IEC 61215/IEC61730 : CEC/CE/TUV/JET

ISO9001 : 2008 | QUALITY MANAGEMENT SYSTEM

ISO14001 : 2004 | STANDARD FOR ENVIRONMENTAL

MANAGEMENT SYSTEM

BS OHSAS 18001 : 2007



### 关于丰源

### About Solar Fab

镇江丰源新能源科技有限公司成立于2006年6月26日，公司现有员工600余人，主要从事于太阳能光伏组件的制造、销售及相关技术的研发。2019年产能达到1GW，公司位于江苏省镇江扬中市油坊镇明珠南路1号；占地260亩。

Zhenjiang Fengyuan New Energy Science & Technology Co.,Ltd. was founded in 2006, with over 600 employees, covering an area of 260 acres, the company mainly specializes in solar photo voltaic module manufacturing, sales and R&D. Our factory is located in No.1 South Mingzhu Road, Youfang Town, Yangzhong, Jiangsu, China. And our capacity reached 1GW in 2019.

### 产品 || 主要特征

### PRODUCT KEY FEATURES



组件效率达到19.8%  
Excellent Module Efficiency  
Up To 19.8%



组件正公差+5%，  
保证更高的功率输出  
Positive Tolerance Of Up To  
5% Delivers Higher Outputs  
Reliability



完美的弱光效应，保证弱  
光条件下更好的组件性能  
Excellent weak light  
performance  
Excellent performance  
under low light conditions



串联电流工艺，保证最大的系统  
输出，减少功率损耗2%  
Current sorting process  
System output maximized by reducing  
mismatch losses up to 2% with modules  
sorted & packaged by amperage



防水等级IP67，保证组件长期稳定性  
IP67 junction box available  
long-term weather endurance



最大雪载负荷达到5400pa  
Heavy snow load  
up to 5400pa

标准测试条件下的电性能参数

ELECTRICAL DATA | STC

标准测试条件下的电性能参数 Electrical Data	FY-144PE -380GM	FY-144PE -385GM	FY-144PE -390GM
峰值功率 Maximum Power at STC(Pmax)	380W	385W	390W
峰值功率电压 Optimum Operating Voltage(Vmp)	44.1V	44.3V	44.5V
峰值功率电流 Optimum Operating Current(Imp)	9.18A	9.56A	9.63A
开路电压 Open Circuit Voltage(Voc)	47.9V	48.1V	48.3V
短路电流 Short Circuit Current(Isc)	9.93A	9.94A	9.95A
组件效率 Module Efficiency	19.3%	19.5%	19.8%
组件工作温度 Operating Module Temperature	-40℃to+85℃		
最大系统电压 Maximum System Voltage	1000 V DC(IEC)		
最大保险丝额定值 Maximum Series Fuse Raing	20A		
组件功率公差 Power Tolerance	0/+5%		

STC: 辐照度1000W/m<sup>2</sup>, 组件温度25℃, 大气质量AM1.5, 根据(IEC 60904-9), 功率测试误差范围±3%  
STC: Irradiance 1000 W/m<sup>2</sup>, module temperature 25℃, AM=1.5;  
Best in Class AAA solar simulator (IEC 60904-9) used, power measurement uncertainty is within +/-3%

Noct	FY-144PE -380GM	FY-144PE -385GM	FY-144PE -390GM
峰值功率 Maximum Power at STC(Pmax)	279.9W	283.2W	286.5W
峰值功率电压 Optimum Operating Voltage(Vmp)	36.4V	36.5V	36.6V
峰值功率电流 Optimum Operating Current(Imp)	7.69A	7.76A	7.83A
开路电压 Open Circuit Voltage(Voc)	44.2V	44.4V	44.6V
短路电流 Short Circuit Current(Isc)	8.08A	8.14A	8.21A

NOCT: Irradiance 800 W/m<sup>2</sup>, ambient temperature 20℃, AM=1.5, wind speed 1 m/s;  
Best in Class AAA solar simulator (IEC 60904-9) used, power measurement uncertainty is within +/- 3%

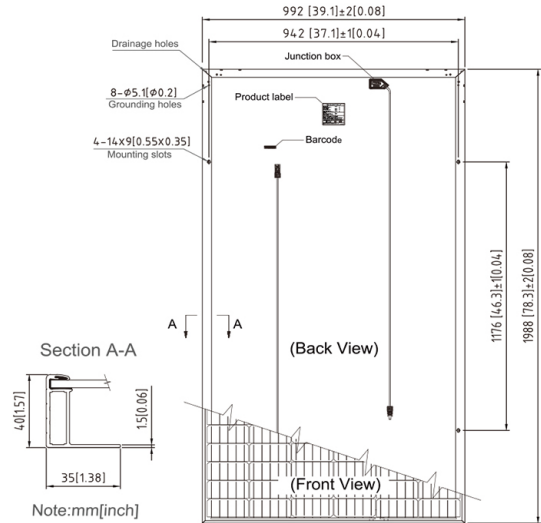
温度特征 Temperature Characteristics	
NOCT标准下的电池片温度 Nominal Operating Cell Temperature (NOCT)	45 ± 2℃
峰值功率的温度系数 Temperature Coefficient of Pmax	-0.43%/℃
开路电压的温度系数 Temperature Coefficient of Voc	-0.33%/℃
短路电流的温度系数 Temperature Coefficient of Isc	0.067%/℃

结构材料 Mechanical Characteristics	
太阳能电池片 Solar Cell	单晶6英寸 Monocrystalline silicon 6 in
电池片数量 No. of Cells	144 ( 6 x 24 )
组件尺寸 Dimensions	1988 x 992 x 40mm
组件重量 Weight	22.3kg
玻璃 Front Glass	低铁钢化玻璃3.2mm 3.2mm tempered glass
边框 Frame	阳极氧化铝合金 Anodized aluminium alloy
接线盒 (防护等级) Junction Box	IP67 rated ( 3 bypass diodes )
线缆 (标准/横截面积/长度) Output Cables	TUV(2 PFG 1169/08.07) 4.0mm <sup>2</sup> , symmetrical lengths(-) 700mm and (+)700mm
接插件 Connectors	通灵/JINGKE TL connectors

包装信息 Packing Configuration	40' HC	20' GP
每托盘的数量 (片) Pieces per pallet	26	26
每集装箱的托盘数量 (片) Pallets per container	22	5
每货柜的数量 (片) Pieces per container	572	130

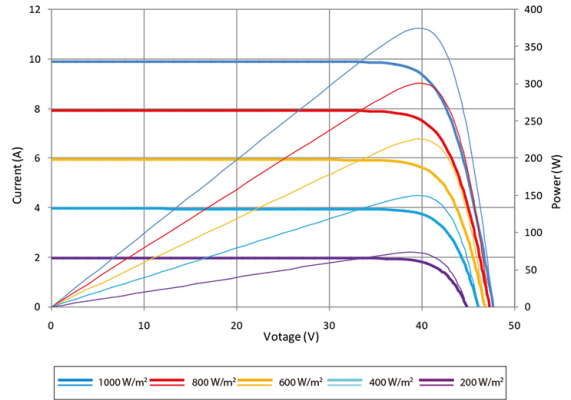
组件结构图

MODULE | ENGINEERING DRAWING



电流-电压 & 功率-电压曲线图 (390GM)

Current-Voltage & Power-Voltage Curve (390GM)



信息栏

Information bar



产品规格改变时不另行通知