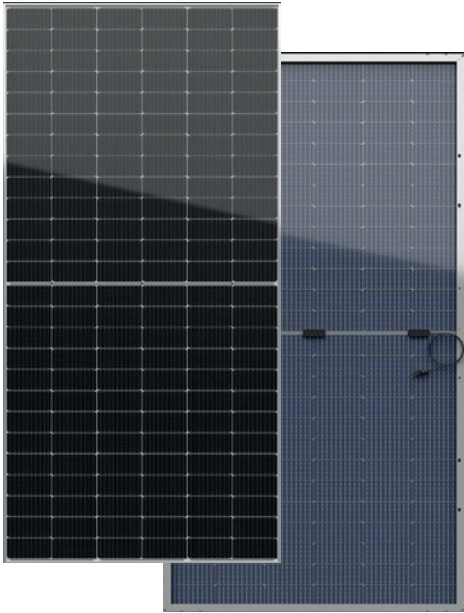


# FE78-18X Transparent

High Efficiency Low LID Bifacial cell with Half-cut Technology

Big Size Cell 182mm x 91mm Monocrystalline

**585W / 590W**  
**595W / 600W / 605W**



◆Module Efficiency:  
21.6%

◆No.of Cells:  
156 (6x20)

◆Weight:  
29.0kg

◆Dimensions:  
2464mm x 1134mm x 35 mm



Half cut cell technology can reduce the internal power loss and improve component overall power. Excellent heat dissipation avoids hot spot production.



10BB The optimized number and width of main gate lines, Maximize the light receiving area of components and power consumption.

**EL**

Microcrack resistant high performance transparent backsheets structure enhance reliability, triple EL tested of high quality control.



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



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



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

**15 Ys**

Products Warranty

**30 Ys**

Warranty on power output

**5W**

Positive tolerance 0/+5W guaranteed

**PID**

PID Resistant

**Comprehensive and first-rate certification system**

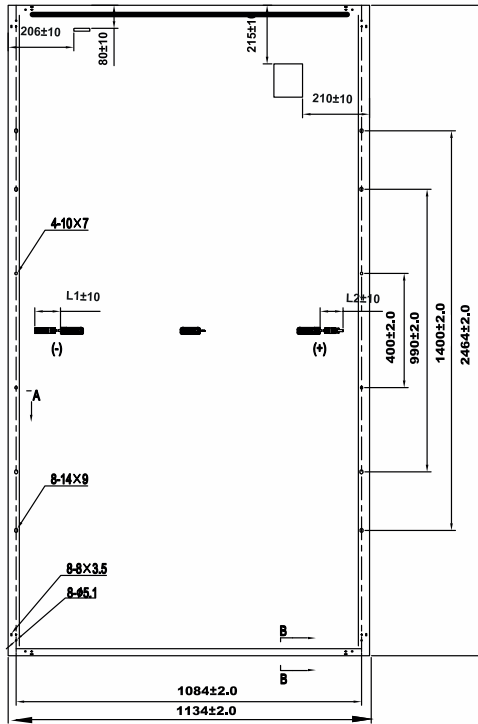
IEC61215: 2016, IEC61730: 2016 Latest Standard ISO14001 and ISO45001, meeting the highest international standards Strict quality control



## FE78-18X Transparent

**585W / 590W / 595W / 600W / 605W**

### Engineering Drawing



### Electrical Characteristics

| Module                          | FE78-18X Transparent |        |        |        |        |
|---------------------------------|----------------------|--------|--------|--------|--------|
| Maximum Power at STC (Pmax)     | 585W                 | 590W   | 595W   | 600W   | 605W   |
| Open-Circuit Voltage (Voc)      | 53.77V               | 53.92V | 53.94V | 54.09V | 54.24V |
| Short-Circuit Current (Isc)     | 13.89A               | 13.96A | 14.03A | 14.10A | 14.17A |
| Optimum Operating Voltage (Vmp) | 45.13V               | 45.28V | 45.43V | 45.58V | 45.73V |
| Optimum Operating Current (Imp) | 12.97A               | 13.04A | 13.11A | 13.17A | 13.24A |
| Module Efficiency               | 20.90%               | 21.10% | 21.30% | 21.40% | 21.60% |
| Power Tolerance                 | 0 ~ +5W              |        |        |        |        |
| Maximum Series Voltage          | 1500V DC (IEC)       |        |        |        |        |
| Maximum Series Fuse Rating      | 25A                  |        |        |        |        |
| Operating Temperature           | -40°C to +85°C       |        |        |        |        |

\*STC: Irradiance 1000W/m<sup>2</sup>, module temperature 25, AM=1.5  
Optional Black frame or white frame module according to customer requirements

### NMOT

| Module                          | FE78-18X Transparent |        |        |        |        |
|---------------------------------|----------------------|--------|--------|--------|--------|
| Maximum Power                   | 435W                 | 439W   | 443W   | 446W   | 450W   |
| Open-Circuit Voltage (Voc)      | 50.84V               | 50.98V | 51.12V | 51.27V | 51.41V |
| Short-Circuit Current (Isc)     | 11.21A               | 11.27A | 11.32A | 11.38A | 11.44A |
| Optimum Operating Voltage (Vmp) | 42.77V               | 42.92V | 43.06V | 43.20V | 43.34V |
| Optimum Operating Current (Imp) | 10.17A               | 10.23A | 10.29A | 10.32A | 10.38A |
| Power Tolerance                 | 45°C±2               |        |        |        |        |

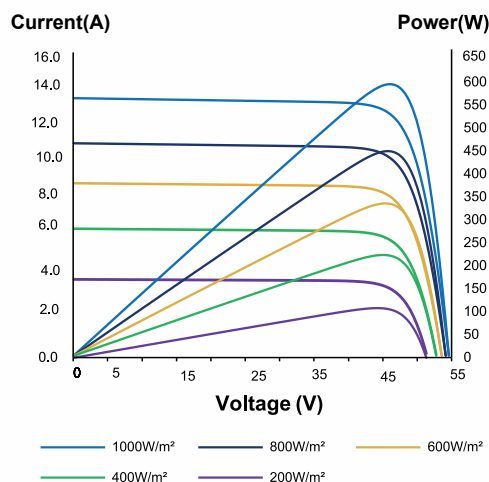
\*NMOT: Irradiance 800W/m<sup>2</sup>, ambient temperature 20°C, wind speed 1m/s

### Mechanical Characteristics

|                         |  |
|-------------------------|--|
| Solar Cells             | Monocrystalline 182 x 91 mm  |
| No. of Cells            | 156 (6x26)   |
| Dimensions              | 2464mm x 1134mm x 35mm   |
| Weight                  | 29.0 kg  |
| Front Glass             | High transmission tempered glass; thickness; 3.2m                        |
| Frame                   | Anodized aluminium alloy   |
| Junction Box            | IP68   |
| Cable                   | 4mm <sup>2</sup> (IEC) Length:(+)400mm (-)200mm/length can be customized |
| Connectors              | Original MC4   |
| Packaging Configuration | 31pcs / box, 496pcs / 40'HQ Container                                    |

### I-V Curves

Current Voltage & Power-Voltage Curve



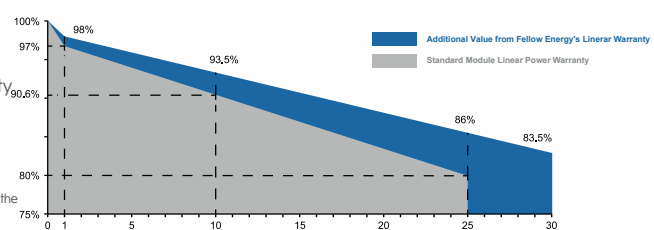
### Temperature Characteristics

|                                 |         |            |
|---------------------------------|---------|------------|
| Temperature Coefficient of Pmax | γ (Pm)  | -0.326%/°C |
| Temperature Coefficient of Voc  | β (Voc) | -0.258%/°C |
| Temperature Coefficient of Isc  | α (Isc) | -0.051%/°C |

### Warranty

15 Ys Products Warranty,  
30 Ys Warranty on power output

Specific information is referred to the product quality guarantee



The module recycling should be carried out by the professional institutions at the end of module life cycle