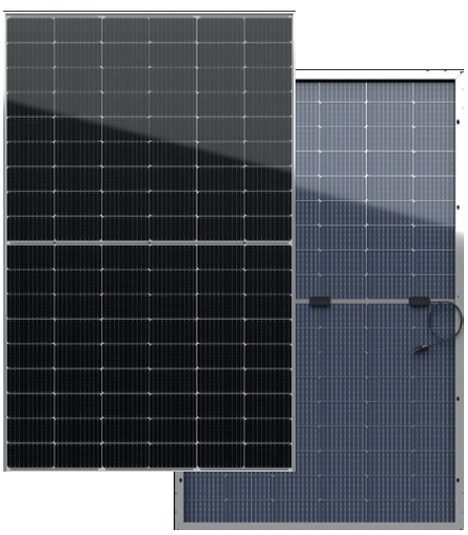
FELLOWPLUS+

FE54-18X Transparent

High Effiency Low LID Bifacial cell with Half-cut Technology

Big Size Cell 182mm x 91mm Monocrystalline

400W / 405W
410W / 415W / 420W



- ◆Module Efficiency:
  21.7%
- ◆No.of Cells:
  108 (6x20)
- ◆Weight:
  21.0kg
- ◆Dimensions:
  1724mm x 1134mm x 30 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 backsheet structure enhance reliability, triple EL tested of high quality control.

Designed for high voltage systems of up to 1500 VDC, increas-ing 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 Resistand

Comprehensive and first-rate certification system

IEC61215: 2016.IEC61730: 2016 Latest Standard
IS014001 and ISO45001,
meeting the highest international standards Strict quality control

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Better Choice For Higher Efficiency!

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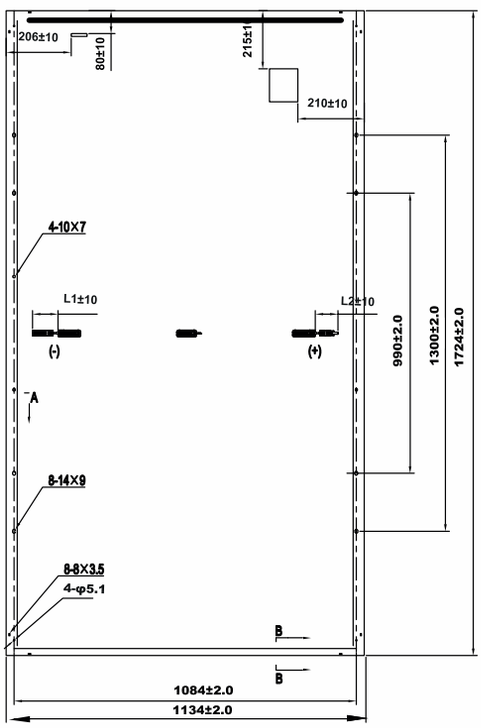
Engineering Drawing



Electrical Characteristics

Module	FE54-18X Transparent				
Maximum Power at STC (Pmax)	400W	405W	410W	415W	420W
Open-Circuit Voltage (Voc)	37.05V	37.19V	37.33V	37.48V	37.63V
Short-Circuit Current (Isc)	13.83A	13.91A	13.98A	14.06A	14.14A
Optimum Operating Voltage (Vmp)	31.17V	31.31V	31.44V	31.60V	31.74V
Optimum Operating Current (Imp)	12.84A	12.95A	13.05A	13.14A	13.24A
Module Efficiency	20.40%	20.70%	21.00%	21.20%	21.50%
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/m², module temperature 25, AM=1.5
Optional Black frame or white frame module according to customer requirements

NMOT

Module	FE54-18X Transparent				
Maximum Power	297W	301W	305W	309W	312W
Open-Circuit Voltage (Voc)	32.12V	35.25V	35.38V	35.52V	35.67V
Short-Circuit Current (Isc)	11.17A	11.23A	11.28A	11.35A	11.41A
Optimum Operating Voltage (Vmp)	29.55V	29.68V	29.80V	29.95V	30.08V
Optimum Operating Current (Imp)	10.05A	10.14A	10.23A	10.32A	10.37A
Power Tolerance	45°C±2				

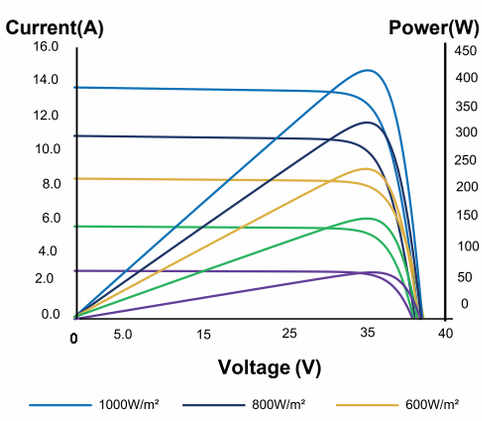
*NMOT:Irradiance 800W/m², ambient temperature 20°C, wind spead 1m/s

Mechanical Characteristics

Solar Cells	Monocrystalline 182 x 91 mm
No. of Cells	108 (6x18)
Dimensions	1724mm x 1134mm x 30mm
Weight	21.0 kg
Front Glass	High transmission tempered glass; thickness 3.2m
Frame	Anodized aluminium alloy
Junction Box	IP68
Cable	4mm²(IEC) Lenght:(+)400mm (-)200mm/ length can be customized
Connectors	Original MC4
Packaging Configuration	36pcs / box, 936pcs / 40'HQ Container

I-V Curves

Current Voltage & Power-Voltage Curve



Temperature Characteristics

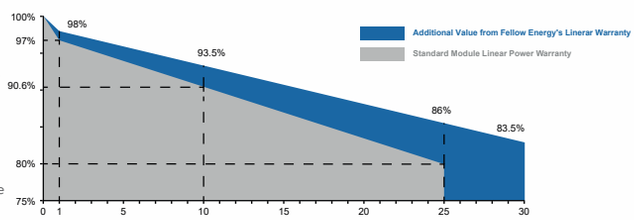
Temperature Coefficient of Pmax	γ (Pm)	-0.326%/°C
Temperature Coefficient of Voc	ß (Voc)	-0.258%/°C
Temperature Coefficient of Isc	α (Isc)	-0.051%/°C

Warranty

15 Ys Products Warranty

30 Ys Warranty on power output

Specific information is referred to the product quality guarante



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

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