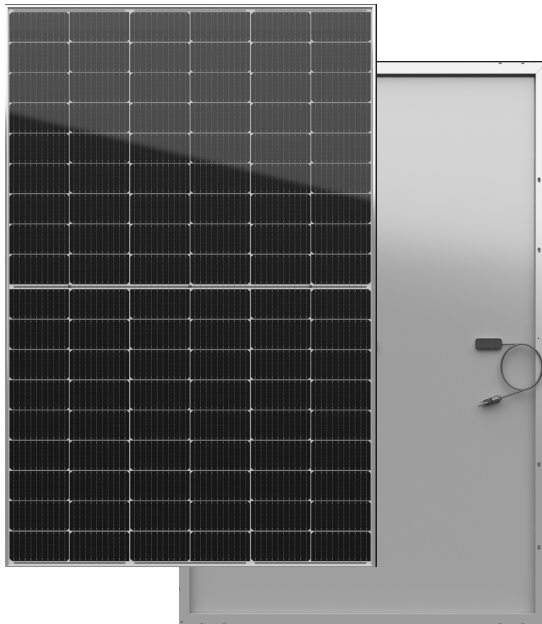


# FE54-18X (N)

High Efficiency ZERO LID and TOPCON cell with Half-cut Technology

Big Size Cell 182\*91 mm Monocrystalline

**415W / 420W**  
**425W / 430W / 435W**



- ◆ **Module Efficiency : 22.3%**
- ◆ **No.of Cells:**  
108 (6 x 18)
- ◆ **Weight:**  
21.0kg
- ◆ **Dimensions:**  
1724±2mm × 1134±2mm × 30mm



**ZERO LID (Light Induced Degradation)**

N-type solar cell has no LID naturally which can increase power generation.



**10-30% Additional Power Generation**

10-30% additional power generation comparing with conventional P-type module

**EL**

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



**Lower LCOE**  
Higher bifaciality 80%±5%, higher power output and lower BOS cost. Higher power output even under low-light environment



**Enhanced Mechanical Load**  
Certified to withstand: wind load (2400 Pascal) and snow load (5400 pascal).



**Better Temperature Coefficient**  
Higher power generation under normal working conditions

**15 Ys**

Products Warranty

**30 Ys**

Warranty on power output

**5W**

Positive tolerance 0/+5W guaranteed

**PID**

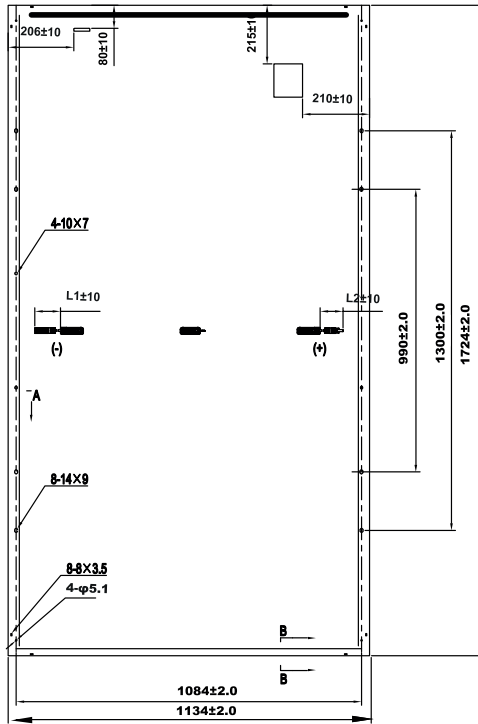
PID Resistant

**Comprehensive and first-rate certification system**

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



#### Engineering Drawing



#### Electrical Characteristics

Module	FE54-18X (N)				
Maximum Power at STC (Pmax)	415W	420W	425W	430W	435W
Open-Circuit Voltage (Voc)	38.0V	38.1V	38.2V	38.3V	38.4V
Short-Circuit Current (Isc)	13.99A	14.07A	14.15A	14.23A	14.31A
Optimum Operating Voltage (Vmp)	31.3V	31.5V	31.7V	31.9V	32.0V
Optimum Operating Current (Imp)	13.26A	13.34A	13.42A	13.50A	13.60A
Module Efficiency	21.23%	21.48%	21.74%	21.99%	22.3%
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	FE54-18X (N) (Bifaciality 80±5%)				
Maximum Power	315W	319W	323W	327W	331W
Open-Circuit Voltage (Voc)	36.5V	36.6V	36.7V	36.8V	36.9V
Short-Circuit Current (Isc)	11.28A	11.34A	11.40A	11.47A	11.53A
Optimum Operating Voltage (Vmp)	30.0V	30.2V	30.4V	30.7V	30.9V
Optimum Operating Current (Imp)	10.50A	10.56A	10.62A	10.65A	10.71A
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	108 (6x18)
Dimensions	1724±2mm × 1134±2mm × 30mm
Weight	21.0 kg
Front Glass	High transmission tempered glass; thickness; 3.2mm
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	36pcs / box, 936pcs / 40'HQ Container

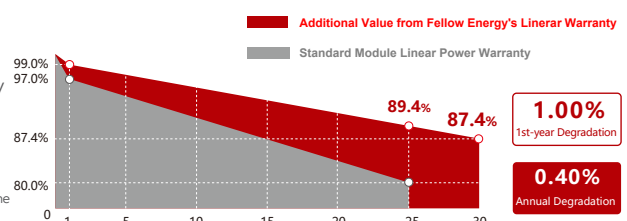
#### Temperature Characteristics

Temperature Coefficient of Pmax	γ (Pm)	-0.31%/°C
Temperature Coefficient of Voc	β (Voc)	-0.25%/°C
Temperature Coefficient of Isc	α (Isc)	+0.46%/°C

#### Warranty

15 Ys Products Warranty  
30 Ys Warranty on power output

Specific information is referred to the product quality guarantee



#### I-V Curves

