

# EagleRE

## FALCON N-TOPCon

Power Output

# 565–585Wp

Bifacial Double Glass Module  
182mm Silicon wafer with Half-cut Tech  
To Improve Efficiency and Quality



### ► KEY FEATURES

- Industry Leading Module Efficiency, up to 22.7%
- Bifaciality is up to 80%, up to 30% more energy yield than conventional modules
- Duo side cell, symmetrical design, low risk of micro crack
- Higher power output even under low-light environments like on cloudy or foggy days
- 15 years materials warranty, 30 years power warranty
- Wide application scenerios such as BIPV, snow field, vertical installation, high humidity, strong wind and desert region
- PID Resistance Technology

### ► QUALITY SYSTEM CERTIFICATES

ISO9001 | ISO14001 | IEC 61215 | IEC 61730  
IEC 62716 | IEC 61701 | IEC TS 62804-1  
IEC 60068-2-68

Specific information is referred  
to the product quality guarantee



High module  
conversion  
efficiency



Outstanding  
Performance in  
weak-light  
conditions



Lower  
operating  
temperature



Half-cell and  
MBB design



Extended wind  
and snow load  
tests

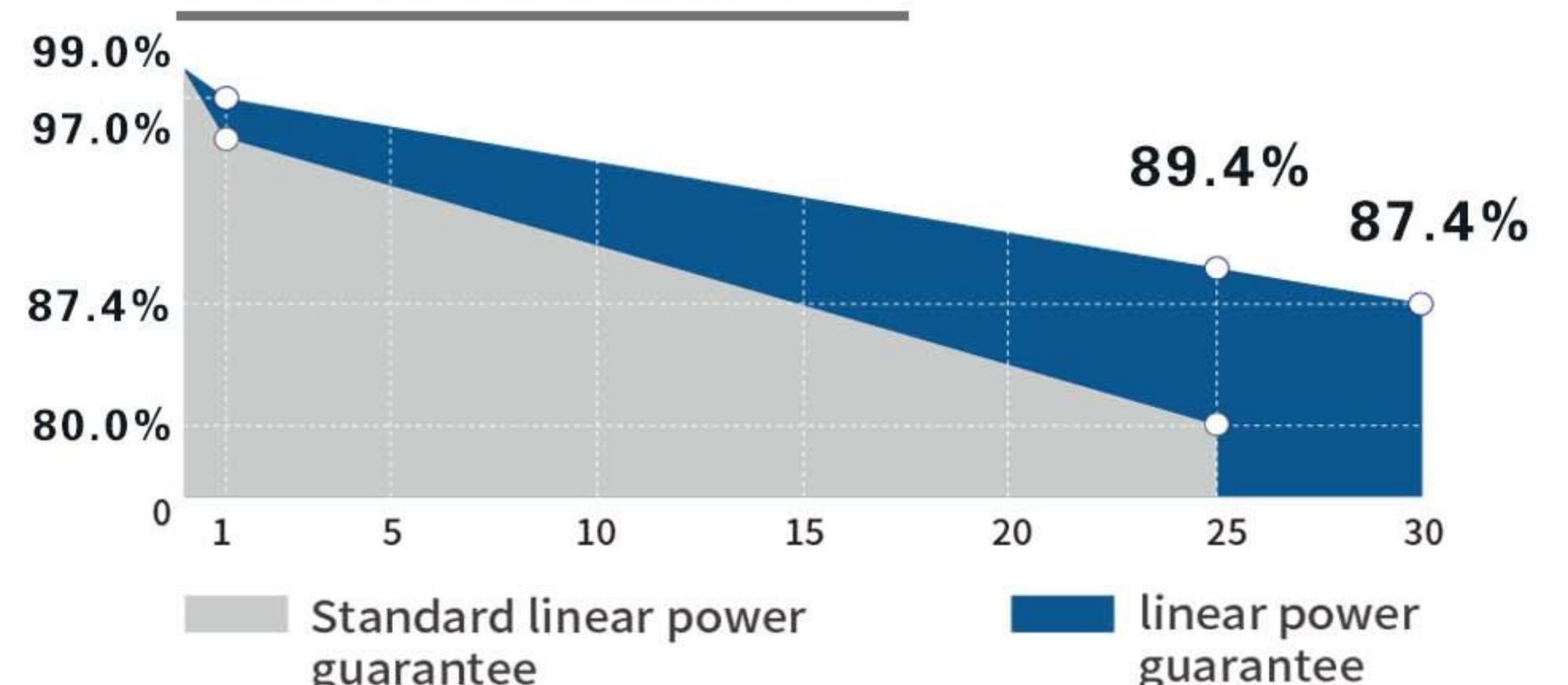


Withstanding  
harsh  
environment



Use Scenario  
customization

### ► WARRANTY



Materials and  
workmanship warranty

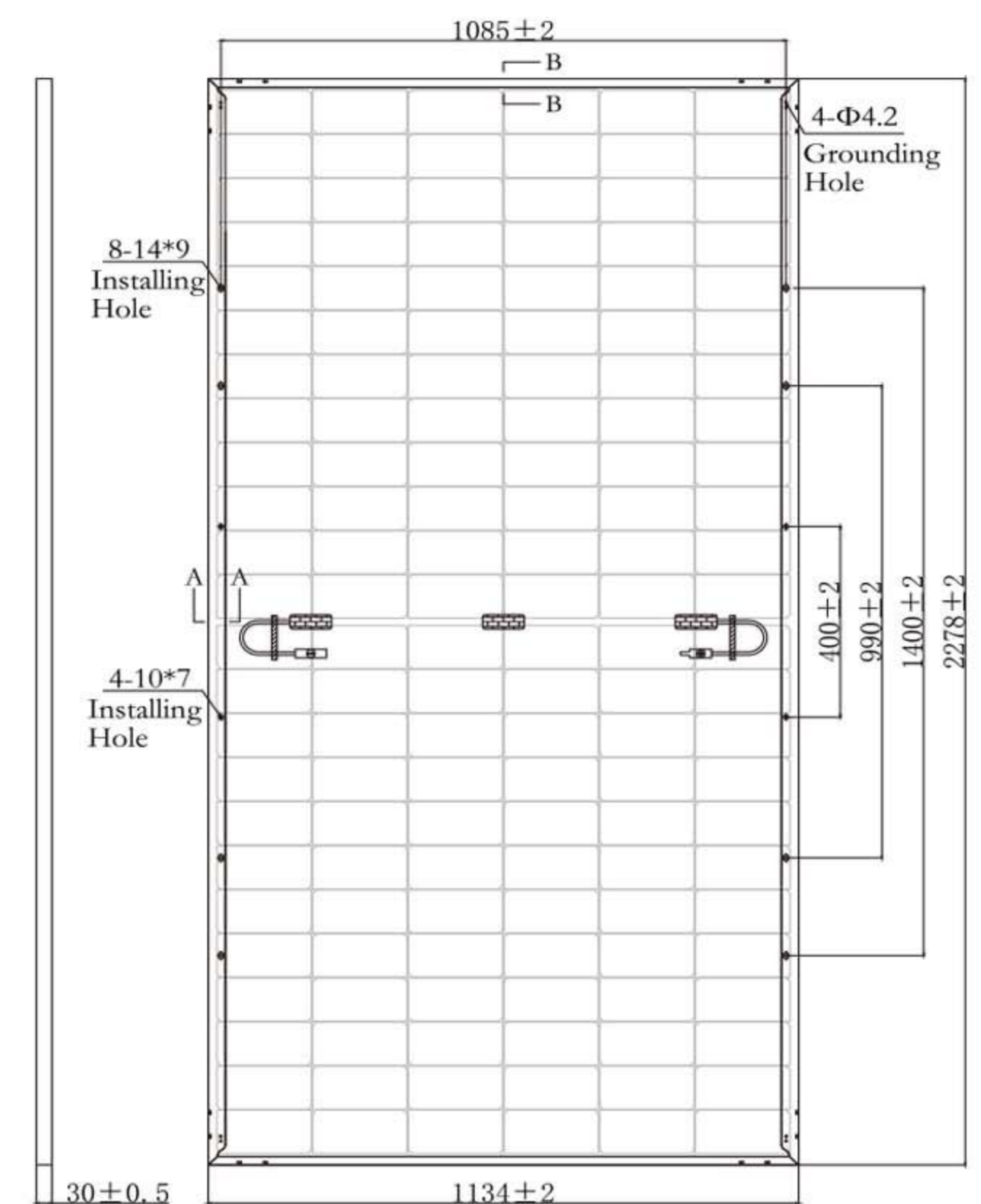


Linear power  
warranty

## Electrical Properties (STC \* )

Module Type	FL-565-182NB-72	FL-570-182NB-72	FL-575-182NB-72	FL-580-182NB-72	FL-585-182NB-72
Testing Condition	Front	Front	Front	Front	Front
Maximum Power $P_{mp}$	565W	570W	575W	580W	585W
Open Circuit Voltage- $V_{oc}$	50.70V	50.90V	51.10V	51.30V	51.50V
Short Circuit Current- $I_{sc}$	14.15A	14.23A	14.31A	14.39A	14.47A
Max Power Voltage- $V_{mp}$	42.50V	42.70V	42.90V	43.10V	43.30V
Max Power Current- $I_{mp}$	13.31A	13.37A	13.41A	13.47A	13.53A
Module Efficiency STC $\eta_m$	21.9%	22.1%	22.3%	22.5%	22.7%
Power Tolerance(W)	(0, +5W)				
Maximum System Voltage	1500V DC (IEC)				
Max Serise Fuse Rating	25A				

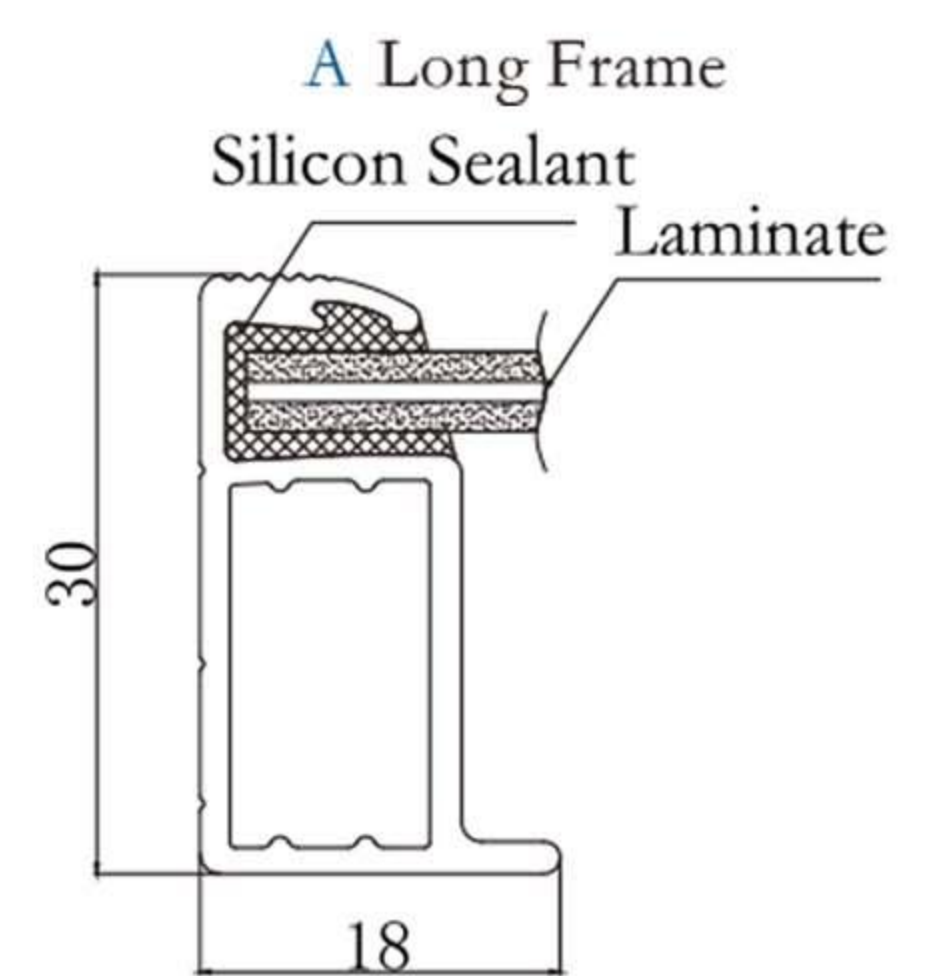
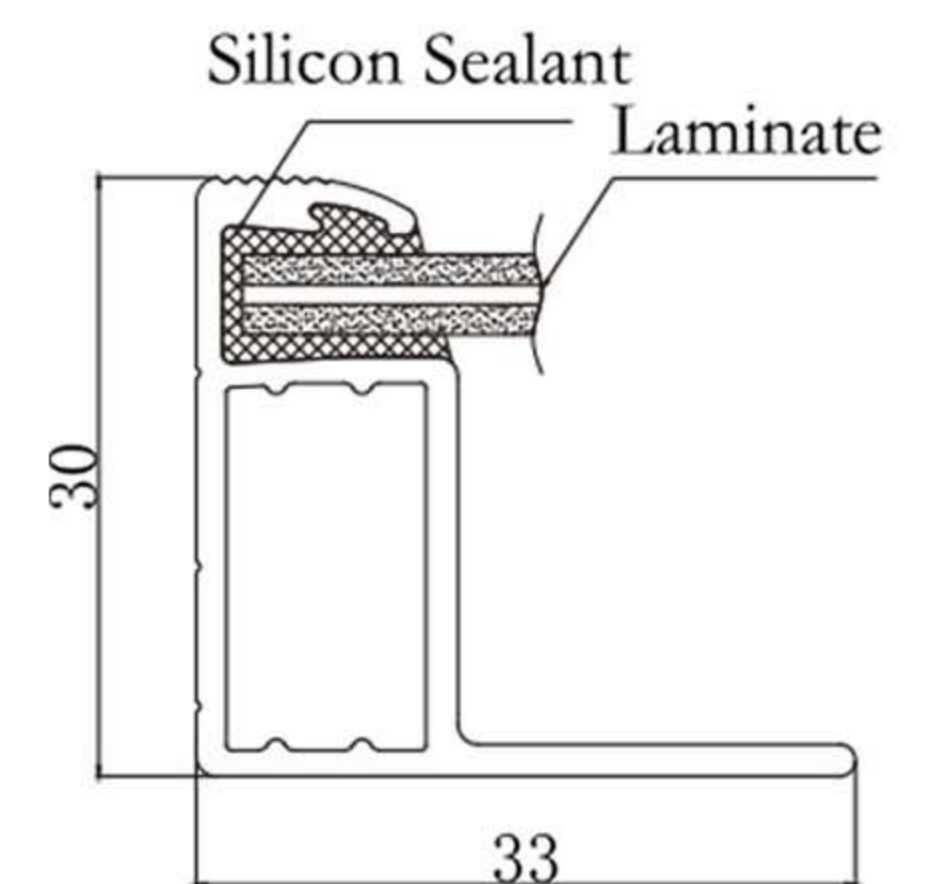
\*STC: Irradiance 1000W/m<sup>2</sup>, module temperature 25, AM=1.5  
Optional black frame or white frame module according to customer requirements



## Electrical Properties (NMOT \* )

Module Type	FL-565-182NB-72	FL-570-182NB-72	FL-575-182NB-72	FL-580-182NB-72	FL-585-182NB-72
Testing Condition	Front	Front	Front	Front	Front
Maximum Power $P_{mp}$	430.0W	433.0W	437.0W	441.0W	445.0W
Open Circuit Voltage- $V_{oc}$	48.70V	48.90V	49.10V	49.20V	49.40V
Short Circuit Current- $I_{sc}$	11.40A	11.47A	11.53A	11.60A	11.66A
Max Power Voltage- $V_{mp}$	40.80V	41.00V	41.20V	41.40V	41.60V
Max Power Current- $I_{mp}$	10.54A	10.56A	10.61A	10.65A	10.70A

\*NMOT: Irradiance 800W/m<sup>2</sup>, ambient temperature 20°C, AM=1.5, wind speed 1m/s



B Short Frame

## Back Power Gain ( For 575W )

Power Gain	10%	15%	20%	25%	30%
Nominal Max. Power( $P_{max}/W$ )	633.0W	661.0W	690.0W	719.0W	748.0W
Open Circuit Voltage( $V_{oc}/V$ )	51.12V	51.14V	51.16V	51.18V	51.20V
Short Circuit Current( $I_{sc}/A$ )	15.74A	16.46A	17.17A	17.89A	18.60A
Max Power Voltage( $V_{mp}/V$ )	42.92V	42.94V	42.96V	42.98V	43.00V
Max Power Current( $I_{mp}/A$ )	14.75A	15.42A	16.09A	16.76A	17.43A

## Temperature Characteristic

$P_{max}$ Temperature Coefficient	-0.290%/°C
$V_{oc}$ Temperature Coefficient	-0.250%/°C
$I_{sc}$ Temperature Coefficient	+0.045%/°C
Operating Temperature	-40°C ~ +85°C
Nominal Operating Cell Temperature	45±2°C

## Mechanical Specifications

External Dimension	2278*1134*30 mm
Weight	27kg
Solar Cell	N-TOPCon 182(N)
GLASS	2.0mm
Frame	Anodized aluminum alloy
Junction Box	IP68, 3diodes, MC4 / MC4 Compatible
Output Cables	4mm <sup>2</sup> , 300mm Length (can be customized)
Mechanical Load	Front side 5400pa/Back side 2400pa
Packing Configuration	36pcs/box, 720pcs/40HQ Container

IV Curve

