

# TOPCon-S1 SERIES

Lead innovation and share benefits

## 565-580W



### • N-TOPCON MODULE ADVANTAGE



Multi-main gate technology



Superior load capacity



High module conversion efficiency



Excellent low-light performance



Low attenuation long warranty



Low BOS and KWH cost



Reduce heat spot effect



Higher bifacially

### • QUALITY SYSTEM

ISO9001 / ISO14001 / ISO45001

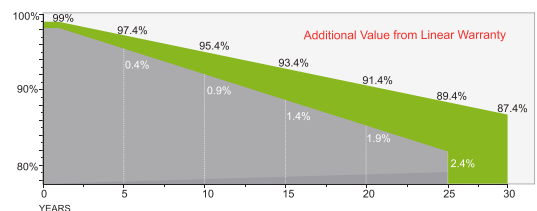
### • PRODUCT CERTIFICATION



### • INSURANCE



### • WARRANTY



Guarantee on product material and workmanship



Linear power output warranty



### Electrical Characteristics

| Module Type                 | FEPM-565T/6A-H |       | FEPM-570T/6A-H |       | FEPM-575T/6A-H |       | FEPM-580T/6A-H |       |
|-----------------------------|----------------|-------|----------------|-------|----------------|-------|----------------|-------|
|                             | STC            | NOCT  | STC            | NOCT  | STC            | NOCT  | STC            | NOCT  |
| Maximum Power at STC (Pmp)  | 565            | 425   | 570            | 429   | 575            | 433   | 580            | 437   |
| Open Circuit Voltage (Voc)  | 51.50          | 48.93 | 51.70          | 49.12 | 51.90          | 49.31 | 52.10          | 49.50 |
| Short Circuit Current (Isc) | 13.89          | 11.11 | 13.95          | 11.16 | 14.01          | 11.21 | 14.07          | 11.26 |
| Maximum Power Voltage (Vmp) | 42.80          | 40.22 | 43.00          | 40.44 | 43.20          | 40.63 | 43.40          | 40.86 |
| Maximum Power Current (Imp) | 13.21          | 10.57 | 13.26          | 10.61 | 13.32          | 10.66 | 13.37          | 10.70 |
| Module Efficiency at STC(%) | 21.87          |       | 22.07          |       | 22.26          |       | 22.45          |       |
| Power Tolerance             | (0,+4.99)      |       |                |       |                |       |                |       |
| Maximum System Voltage      | 1500V DC       |       |                |       |                |       |                |       |
| Maximum Series Fuse Rating  | 25 A           |       |                |       |                |       |                |       |

STC: Irradiance 1000 W/m<sup>2</sup> module temperature 25°C AM=1.5  
 Power measurement tolerance: +/-3%

### Temperature Characteristics

|  |              |
|--|--------------|
| Pmax Temperature Coefficient             | -0.30%/°C    |
| Voc Temperature Coefficient              | -0.25 %/°C   |
| Isc Temperature Coefficient              | +0.046 %/°C  |
| Operating Temperature                    | -40 ~ +85 °C |
| Nominal Operating Cell Temperature(NOCT) | 45±2 °C      |

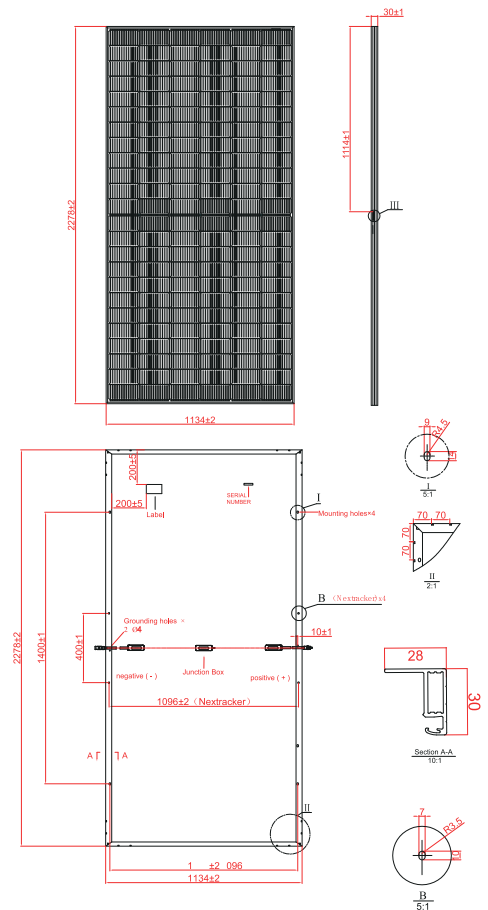
### Mechanical Specifications

|                     |   |
|---------------------|---|
| External Dimensions | 2278x1134x30 mm   |
| Weight              | 26.5 kg   |
| Solar Cells         | N-Topcon 182 x 91mm (144pcs)                                |
| Front Glass         | 3.2mm AR coating tempered glass, low iron                   |
| Frame               | Anodized aluminium alloy                                    |
| Junction Box        | IP68, 3 diodes  |
| Output Cables       | 4.0mm <sup>2</sup> , 250mm(+)/350mm(-) or Customized Length |
| Mechanical Load     | Front side 5400Pa/ Rear side 2400Pa                         |

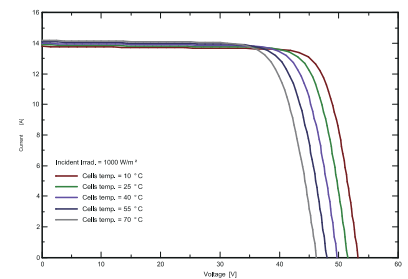
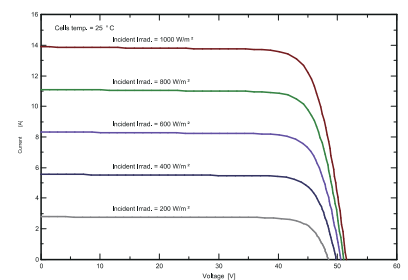
### Packing Configuration

|                       | 2278x1134x30 mm |       |
|-----------------------|-----------------|-------|
| Container             | 20'GP           | 40'HQ |
| Pieces per Pallet     | 36              | 36    |
| Pallets per Container | 4               | 20    |
| Pieces per Container  | 144             | 720   |

For details, please consult FORTUNE ENERGY.



### I-V Curve



Specifications are subject to change without further notification FEPM-DS-EN-2023V1.0 © Copyright 2023 Fortune Energy

