

# TOPCon-S1 SERIES

Lead innovation and share benefits

## 420-435W



### ● 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

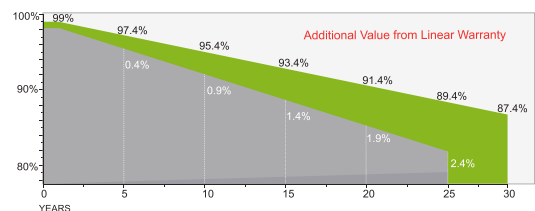
### ● PRODUCT CERTIFICATION



### ● INSURANCE



### ● WARRANTY



Guarantee on product material and workmanship



Linear power output warranty



### Electrical Characteristics

Module Type	FEPM-420T/6D-H		FEPM-425T/6D-H		FEPM-430T/6D-H		FEPM-435T/6D-H	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power at STC (Pmp)	420	316	425	320	430	324	435	328
Open Circuit Voltage (Voc)	38.50	36.58	38.70	36.77	38.90	36.96	39.10	37.15
Short Circuit Current (Isc)	13.83	11.06	13.91	11.13	13.99	11.19	14.07	11.26
Maximum Power Voltage (Vmp)	31.90	29.99	32.10	30.21	32.30	30.41	32.50	30.62
Maximum Power Current (Imp)	13.17	10.54	13.24	10.59	13.32	10.66	13.39	10.71
Module Efficiency at STC(%)	21.51		21.76		22.02		22.28	
Power Tolerance	(0, +4.99W)							
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

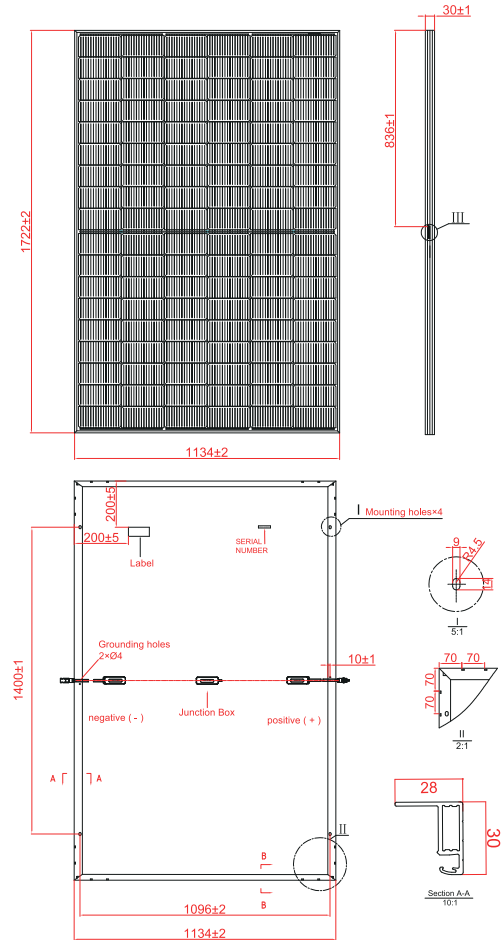
### Mechanical Specifications

External Dimensions	1722 x 1134 x 30 mm
Weight	21.5 kg
Solar Cells	N-TOPCon 182 x 91mm (108 pcs)
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

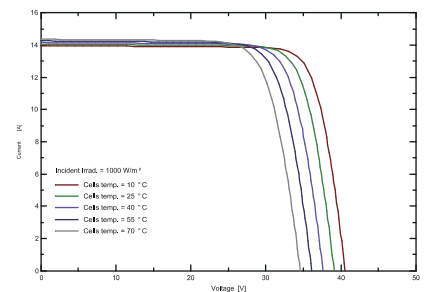
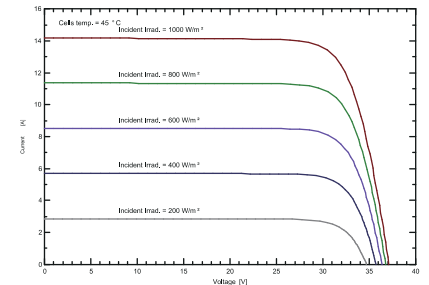
### Packing Configuration

	1722x1134x30 mm	
Container	20'GP	40'HQ
Pieces per Pallet	36	36
Pallets per Container	6	26
Pieces per Container	216	936

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

