

# STAR Pro SERIES N-TOPCon 144-cell MODULE

## EG-590NT72-HLV

### 570~590W

0~3% POSITIVE TOLERANCE

### KEY FEATURES



**SMBB cell design**  
Super multi Busbar cells brings lower resistance and increased Busbar reflectance ensures higher power output



**Low degradation**  
Adopt N-Type TOPCon cell technology, lower degradation and better temperature co-efficiency, greatly increased on generation performance



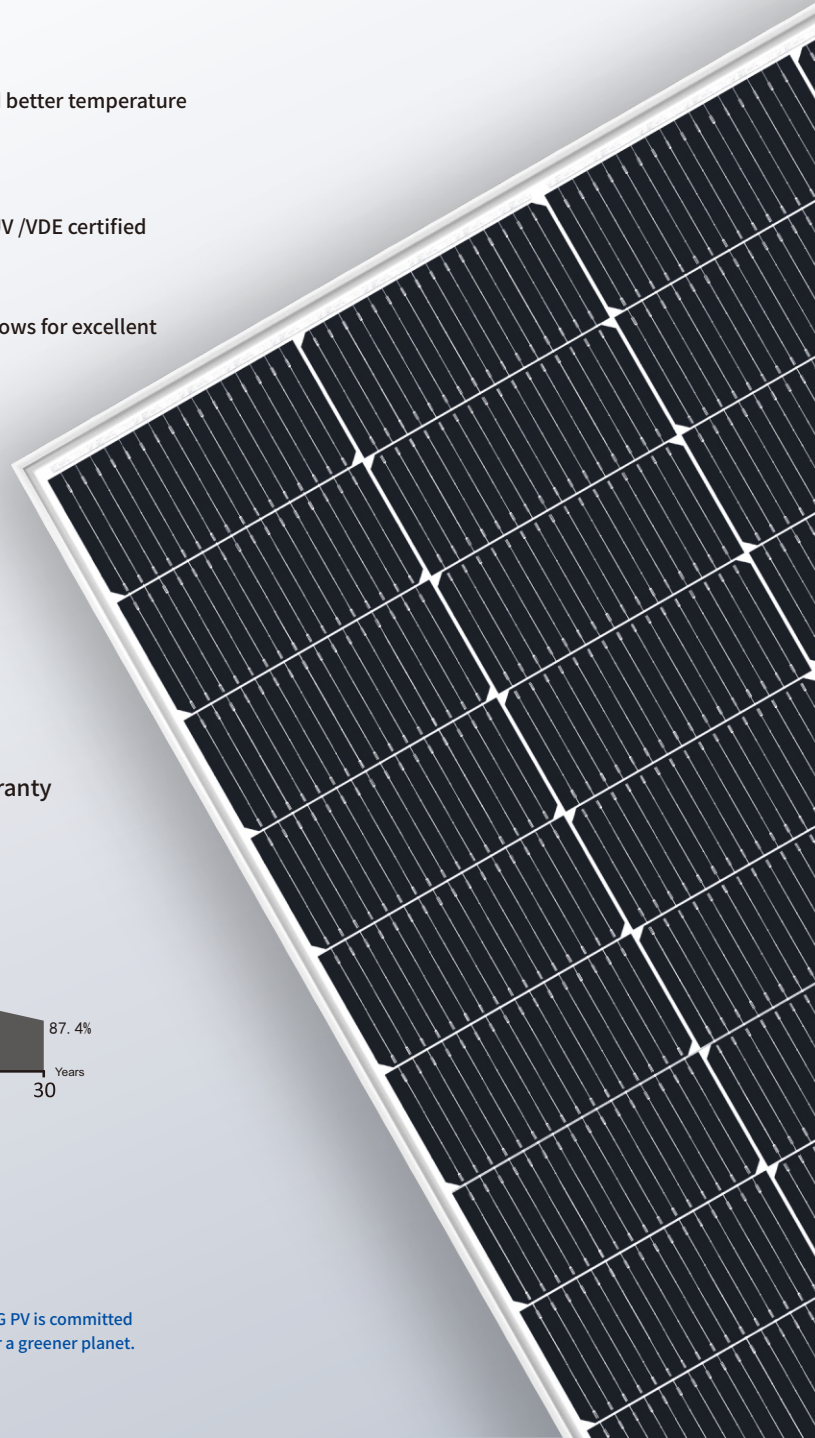
**High Reliability**  
Strict in-house testing in PV Lab which is CNAS approved & TUV /VDE certified



**Excellent Low-light Performance**  
Advanced solar cell and glass surface texturing technology allows for excellent performance in low-light environments

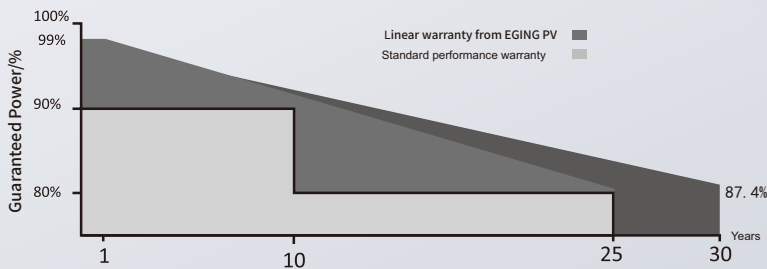


**PID Resistant**  
Excellent PID resistance performance optimized by unique structural design



### LINEAR PERFORMANCE WARRANTY

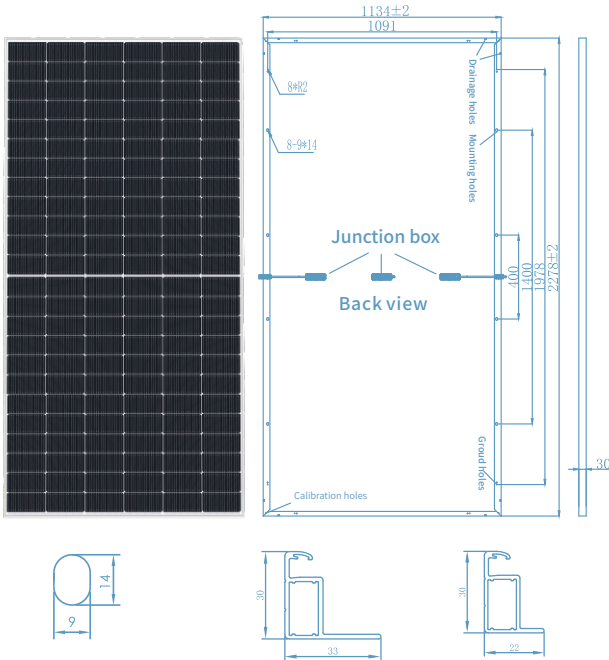
**15** 15 Year Product Warranty **30** 30 Year Linear Power Warranty



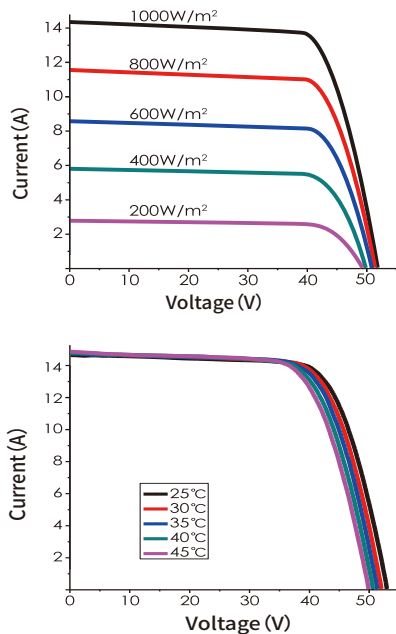
As a BloombergNEF Tier 1 and global leading manufacturer since 1998, EGING PV is committed to supplying reliable and durable PV products to customers to create together a greener planet.

# EG-590NT72-HLV

## Engineering Drawings



## I-V Curves



## Packing Configuration

Pieces per pallet	36
Size of packing (mm)	2320*1135*1255
Weight of packing (kg)	1022
Pieces per container	720
Size of container	40' HC

## Electrical Characteristics

Power level	570	575	580	585	590
Pmax (W)	570	575	580	585	590
Vmp (V)	42.17	42.35	42.53	42.71	42.88
Imp (A)	13.52	13.58	13.64	13.70	13.76
Voc (V)	51.00	51.15	51.30	51.45	51.62
Isc (A)	14.31	14.37	14.43	14.49	14.55
Module efficiency (%)	22.1	22.3	22.5	22.7	22.8
Maximum system voltage (V)	1500				
Fuse Rating (A)	25				
Temperature coefficient Pmax (%/°C)	-0.29				
Temperature coefficient Isc (%/°C)	0.046				
Temperature coefficient Voc (%/°C)	-0.24				

STC: Irradiance 1000W/m<sup>2</sup>, module temperature 25°C, AM=1.5

## Working Characteristics

Power level	570	575	580	585	590
Pmax (W)	429	432	436	441	445
Vmp (V)	39.47	39.49	39.61	39.88	40.06
Imp (A)	10.87	10.94	11.01	11.06	11.11
Voc (V)	48.15	48.28	48.41	48.55	48.70
Isc (A)	11.52	11.59	11.65	11.70	11.75
Power tolerance (%)	0~+3				
NOCT (°C)	44±2				

NOCT: Conditions: Irradiance 800W/m<sup>2</sup>, ambient temperature 20°C, wind speed 1m/s

## Mechanical Characteristics

Number of cells	144pcs
Size of cell (mm)	182*91
Type of cell	N-type Mono
Thickness of glass (mm)	3.2
Type of frame	Anodized aluminum alloy
Junction box	IP68
Size of module (mm)	2278*1134*30
Weight (kg)	27
Cables/connectors	4mm <sup>2</sup> , MC4 compatible
Length of Cabel	Portrait: +300mm/-300mm

## Maximum Ratings

Operating Temperature(°C)	-40~85
Operating humidity(°C)	5~85
Allowable Hail Load	25mm ice-ball with velocity of 23m/s

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Specifications included in this datasheet are subject to change without notice.



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