

# STAR Pro SERIES N-TOPCon 144-cell MODULE

EG-580M72-HLV

**560~580W**

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

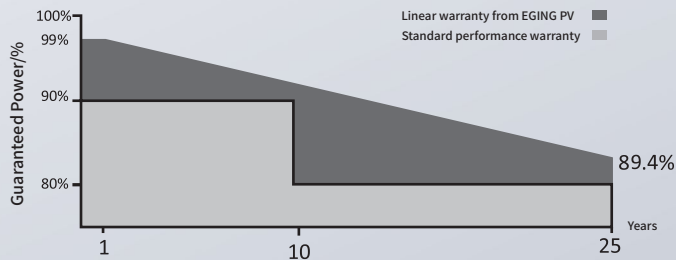


**PID Resistant**  
Excellent PID resistance performance optimized by unique structural design



## LINEAR PERFORMANCE WARRANTY

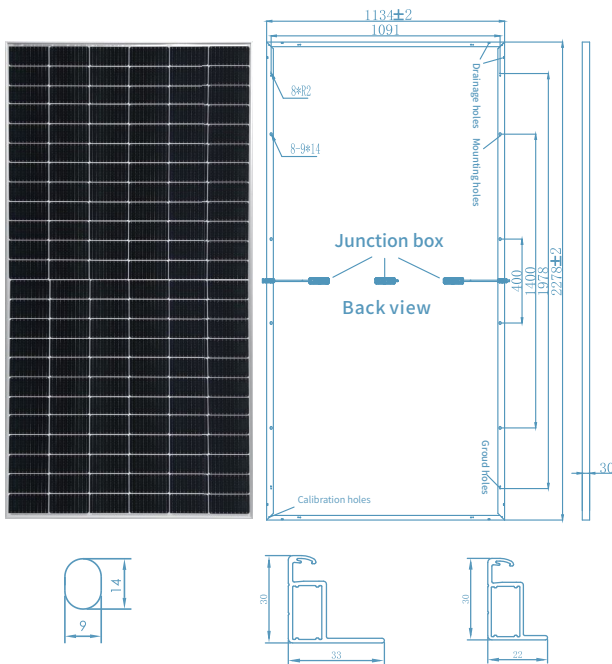
**12** 12 Year Product Warranty    **25** 25 Year Linear Power Warranty



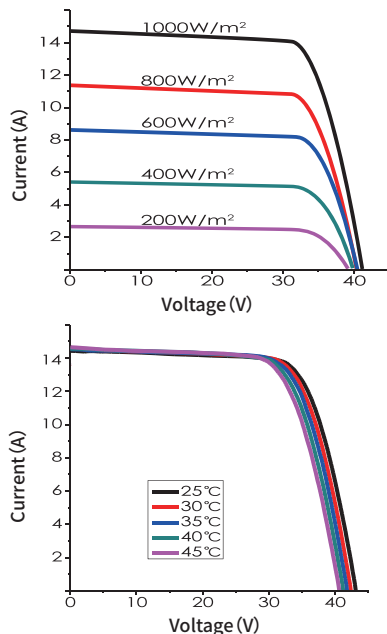
As a BloombergNEF Tier 1 and global leading manufacturer since 1998, EGING PV is committed to supplying reliable and durable PV products to customers to create together a greener planet.

# EG-580NT72-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                         | 560   | 565   | 570   | 575   | 580   |
|-------------------------------------|-------|-------|-------|-------|-------|
| Pmax (W)                            | 560   | 565   | 570   | 575   | 580   |
| Vmp (V)                             | 41.80 | 41.98 | 42.17 | 42.35 | 42.53 |
| Imp (A)                             | 13.40 | 13.46 | 13.52 | 13.58 | 13.64 |
| Voc (V)                             | 50.70 | 50.85 | 51.00 | 51.15 | 51.30 |
| Isc (A)                             | 14.19 | 14.25 | 14.31 | 14.37 | 14.43 |
| Module efficiency (%)               | 21.67 | 21.87 | 22.06 | 22.25 | 22.45 |
| Maximum system voltage (V)          | 1500  |       |       |       |       |
| Fuse Rating (A)                     | 25    |       |       |       |       |
| Temperature coefficient Pmax (%/°C) | -0.30 |       |       |       |       |
| Temperature coefficient Isc (%/°C)  | 0.046 |       |       |       |       |
| Temperature coefficient Voc (%/°C)  | -0.25 |       |       |       |       |

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

## Working Characteristics

| Power level         | 560   | 565   | 570   | 575   | 580   |
|---------------------|-------|-------|-------|-------|-------|
| Pmax (W)            | 421   | 425   | 429   | 432   | 436   |
| Vmp (V)             | 39.17 | 39.32 | 39.47 | 39.49 | 39.61 |
| Imp (A)             | 10.75 | 10.81 | 10.87 | 10.94 | 11.01 |
| Voc (V)             | 47.87 | 48.01 | 48.15 | 48.28 | 48.41 |
| Isc (A)             | 11.40 | 11.46 | 11.52 | 11.59 | 11.65 |
| 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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