

# STAR SERIES MONO PERC 108-cell MODULE

## EG-420M54-HLV

### 410~420W

0~3% POSITIVE TOLERANCE

#### KEY FEATURES



**Mbb cell design**  
Multi Busbar cells brings lower resistance and increased Busbar reflectance ensures higher power output



**High compatibility**  
Innovative 182mm big cell, small size model design, compatible to variance Roof-top and installation methodology



**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

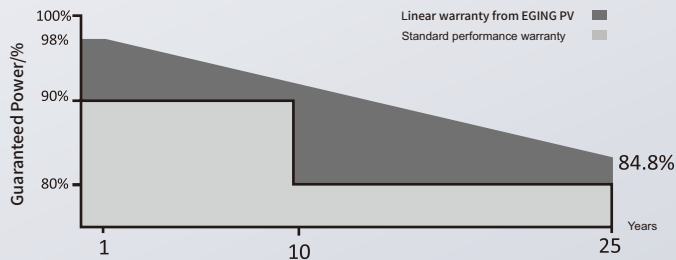


**PID Resistant**  
Excellent PID resistance performance optimized by unique structural design



#### LINEAR PERFORMANCE WARRANTY

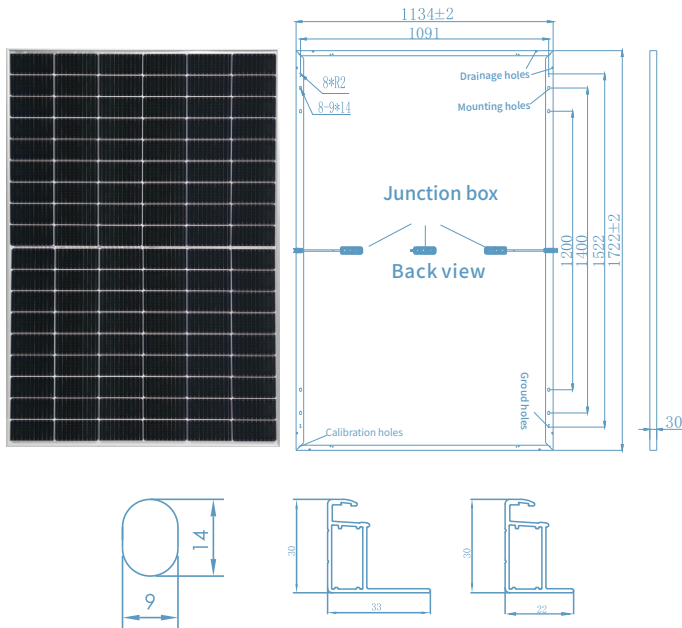
 12 Year Product Warranty  25 Year Linear Power Warranty



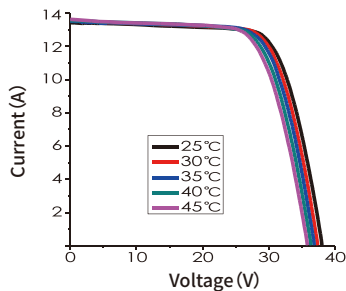
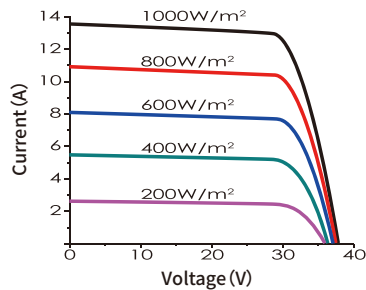
As a BloombergNEF Tier 1 and global leading manufacturer since 1998, EGING PV is committed to supplying reliable and durable PV products to customers to create together a greener planet.

# EG-420M54-HLV

## Engineering Drawings



## I-V Curves



## Packing Configuration

|                        |                |
|------------------------|----------------|
| Pieces per pallet      | 36             |
| Size of packing (mm)   | 1750*1135*1255 |
| Weight of packing (kg) | 772            |
| Pieces per container   | 936            |
| Size of container      | 40' HC         |

## Electrical Characteristics

|                                     |        |       |       |
|-------------------------------------|--------|-------|-------|
| Power level                         | 410    | 415   | 420   |
| Pmax (W)                            | 410    | 415   | 420   |
| Vmp (V)                             | 31.76  | 32.00 | 32.24 |
| Imp (A)                             | 12.91  | 12.97 | 13.03 |
| Voc (V)                             | 37.66  | 37.90 | 38.14 |
| Isc (A)                             | 13.66  | 13.72 | 13.78 |
| Module efficiency (%)               | 20.99  | 21.25 | 21.51 |
| Maximum system voltage (V)          | 1500   |       |       |
| Fuse Rating (A)                     | 25     |       |       |
| Temperature coefficient Pmax (%/°C) | -0.350 |       |       |
| Temperature coefficient Isc (%/°C)  | 0.05   |       |       |
| Temperature coefficient Voc (%/°C)  | -0.275 |       |       |

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

## Working Characteristics

|                     |       |       |       |
|---------------------|-------|-------|-------|
| Power level         | 410   | 415   | 420   |
| Pmax (W)            | 310   | 313   | 318   |
| Vmp (V)             | 29.36 | 29.51 | 29.84 |
| Imp (A)             | 10.56 | 10.61 | 10.66 |
| Voc (V)             | 35.03 | 35.18 | 35.48 |
| Isc (A)             | 11.18 | 11.23 | 11.28 |
| 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         | 108pcs                            |
| Size of cell (mm)       | 182*91                            |
| Type of cell            | Mono                              |
| Thickness of glass (mm) | 3.2                               |
| Type of frame           | Anodized aluminum alloy           |
| Junction box            | IP68                              |
| Size of module (mm)     | 1722*1134*30                      |
| Weight (kg)             | 20.2                              |
| 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.  
The specific content of the product warranty refers to EGING's latest warranty.



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