






# STAR SERIES MONO PERC 108-cell MODULE

## EG-415M54-HLV

### 395~415W

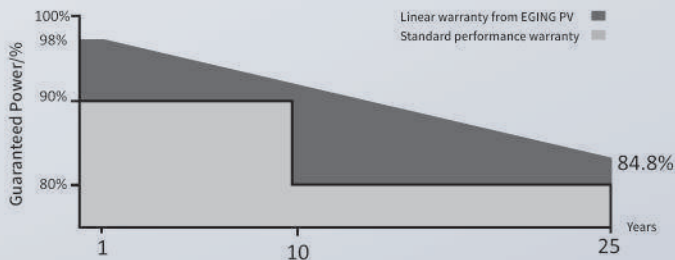
0~3% POSITIVE TOLERANCE

#### 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

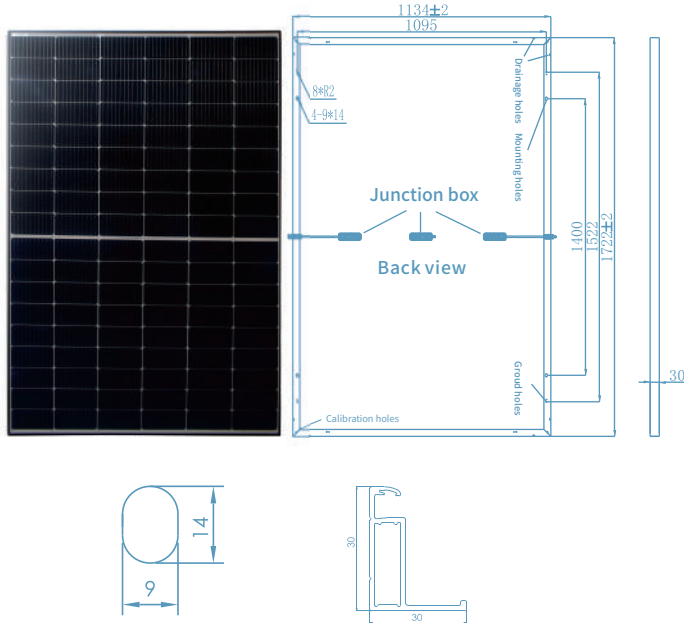
 12 Year Product Warranty  25 Year Linear Power Warranty



 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-415M54-HLV

## Engineering Drawings



## Electrical Characteristics

Power level	395	400	405	410	415
Pmax (W)	395	400	405	410	415
Vmp (V)	31.03	31.28	31.52	31.76	32.00
Imp (A)	12.73	12.79	12.85	12.91	12.97
Voc (V)	36.93	37.18	37.42	37.66	37.90
Isc (A)	13.48	13.54	13.60	13.66	13.72
Module efficiency (%)	20.22	20.48	20.74	20.99	21.25
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				

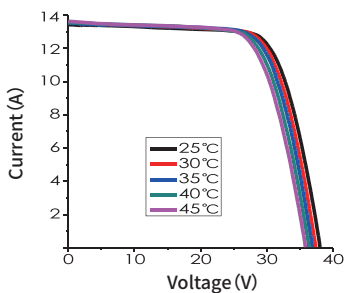
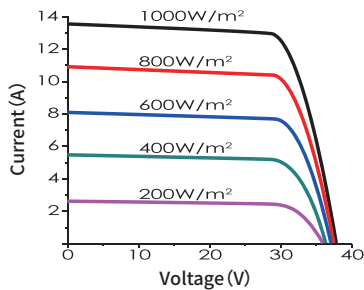
STC: Irradiance 1000W/m<sup>2</sup>, module temperature 25°C, AM=1.5

## Working Characteristics

Power level	395	400	405	410	415
Pmax (W)	299	303	307	310	313
Vmp (V)	28.70	28.94	29.19	29.36	29.51
Imp (A)	10.42	10.47	10.52	10.56	10.61
Voc (V)	34.35	34.58	34.81	35.03	35.18
Isc (A)	11.03	11.08	11.13	11.18	11.23
Power tolerance (%)	0~+3				
NOCT (°C)	44±2				

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

## I-V Curves



## 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

## Packing Configuration

Pieces per pallet	36
Size of packing (mm)	1790*1140*1275
Weight of packing (kg)	772
Pieces per container	936
Size of container	40'HC

## 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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