

# STAR SERIES MONOCRYSTALLINE 144-cell MODULE

## EG-550M72-HLV

### 530~550W

0~3% POSITIVE TOLERANCE

### KEY FEATURES



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



**More Power**  
Innovative 182mm big cell applied to ensure module power up to 550W



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



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



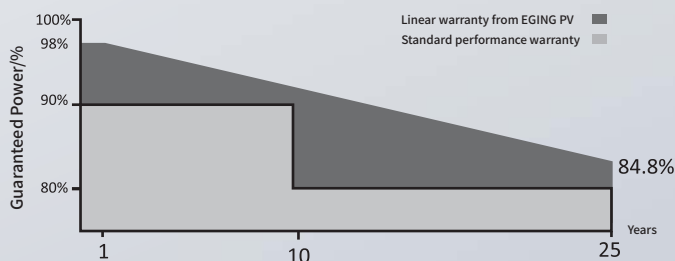
**Highly Strengthened Design**  
Certified to withstand:5400Pa snow load and 2400Pa wind load



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

### LINEAR PERFORMANCE WARRANTY

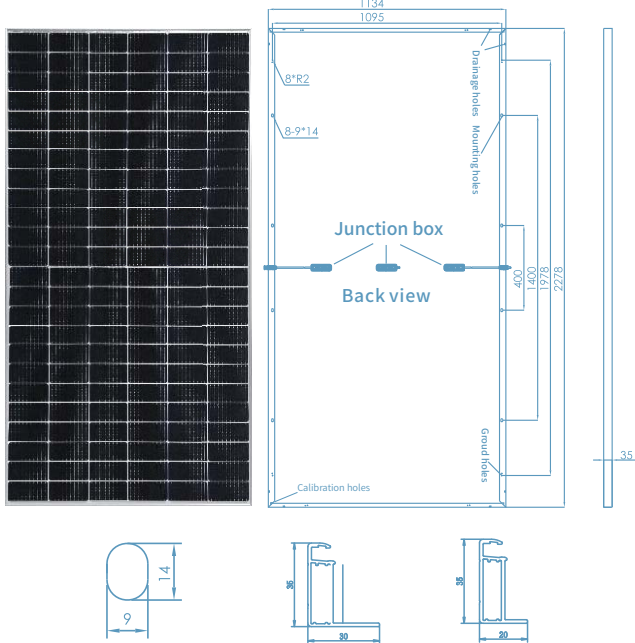
**12** 12 Year Product Warranty    **25** 25 Year Linear Power Warranty



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-550M72-HLV

## Engineering Drawings



## Electrical Characteristics

Power level	530	535	540	545	550
Pmax (W)	530	535	540	545	550
Vmp (V)	41.57	41.80	42.03	42.25	42.48
Imp (A)	12.75	12.80	12.85	12.90	12.95
Voc (V)	49.63	49.76	49.89	50.10	50.32
Isc (A)	13.50	13.55	13.60	13.65	13.70
Module efficiency (%)	20.51	20.71	20.90	21.09	21.29
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

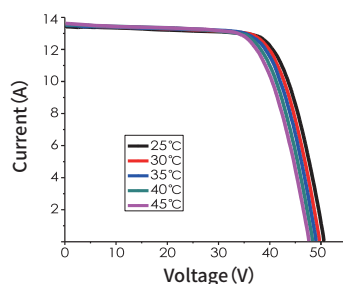
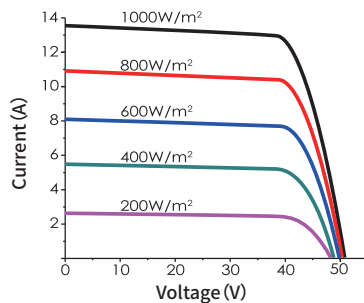
Power level	530	535	540	545	550
Pmax (W)	401	405	409	412	416
Vmp (V)	38.45	38.65	38.88	39.02	39.25
Imp (A)	10.43	10.48	10.52	10.56	10.60
Voc (V)	46.16	46.28	46.40	46.59	46.80
Isc (A)	11.05	11.09	11.13	11.17	11.21
Power tolerance (%)	0~+3				
NOCT (°C)	44±2				

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	Mono
Thickness of glass (mm)	3.2
Type of frame	Anodized aluminum alloy
Junction box	IP68
Size of module (mm)	2278*1134*35
Weight (kg)	27
Cables/connectors	4mm <sup>2</sup> , MC4 compatible
Length of Cabel	Portrait: +300mm/-300mm

## I-V Curves



## Packing Configuration

Pieces per pallet	31
Size of packing (mm)	2320*1140*1275
Weight of packing (kg)	887
Pieces per container	620
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.



Tel: 86-519-82585880

Zip: 213213

Add: No.18, Jinwu Road, Jintan Dist, Changzhou City, Jiangsu Province.

Email: marketing@egingpv.com

Web: www.egingpv.com