

# CONVENTION SERIES MONOCRYSTALLINE 144-cell MODULE

## EG-455M72-HEV

### 435~455W

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



**High Efficiency**  
Leading PERC technology achieves higher module efficiency up to 20.93%



**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



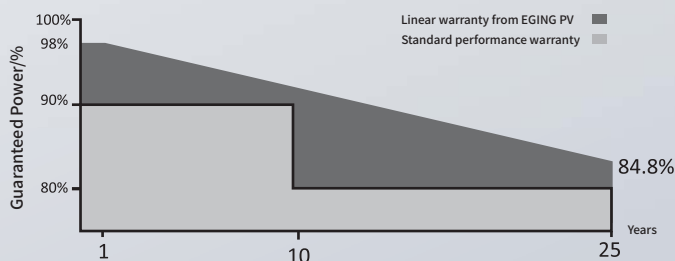
**Highly Strengthened Design**  
Certified to withstand:5400Pa snow load and 2400Pa wind load



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

#### LINEAR PERFORMANCE WARRANTY

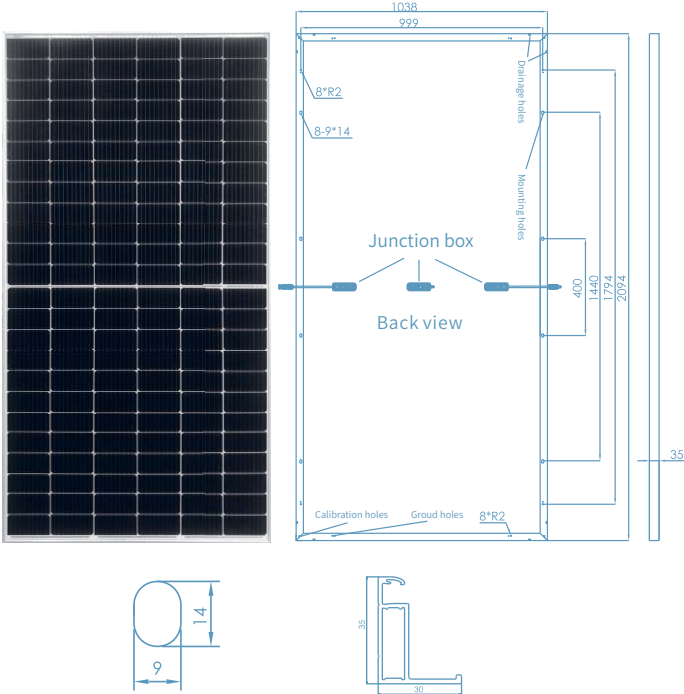
 12 Year Product Warranty  25 Year Linear Power Warranty



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-455M72-HEV

## Engineering Drawings



## Electrical Characteristics

Power level	435	440	445	450	455
Pmax (W)	435	440	445	450	455
Vmp (V)	40.97	41.16	41.36	41.56	41.75
Imp (A)	10.62	10.69	10.76	10.83	10.90
Voc (V)	49.27	49.47	49.67	49.87	50.06
Isc (A)	11.09	11.16	11.23	11.30	11.37
Module efficiency (%)	20.01	20.24	20.47	20.70	20.93
Maximum system voltage (V)	1500				
Fuse Rating (A)	20				
Temperature coefficient	-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

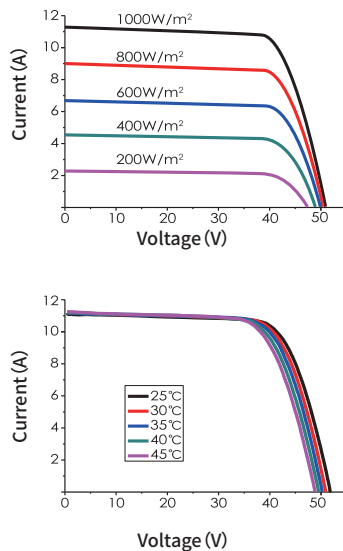
Power level	435	440	445	450	455
Pmax (W)	323	327	330	334	337
Vmp (V)	38.00	38.21	38.38	38.57	38.70
Imp (A)	8.50	8.56	8.60	8.66	8.71
Voc (V)	46.35	46.49	46.70	46.89	47.02
Isc (A)	8.99	9.05	9.10	9.16	9.22
Power tolerance (%)	0~+3				
NOCT (°C)	44±2				

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)	166*83
Type of cell	Mono
Thickness of glass (mm)	3.2
Type of frame	Anodized aluminum alloy
Junction box	IP68
Size of module (mm)	2094*1038*35
Weight (kg)	22.7
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)	2130*1140*1190
Weight of packing (kg)	754
Pieces per container	682
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



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

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