







CONVENTION SERIES MONOCRYSTALLINE 144-cell MODULE

EG-455M72-HEV

435~455W

0~3% POSITIVE TOLERANCE

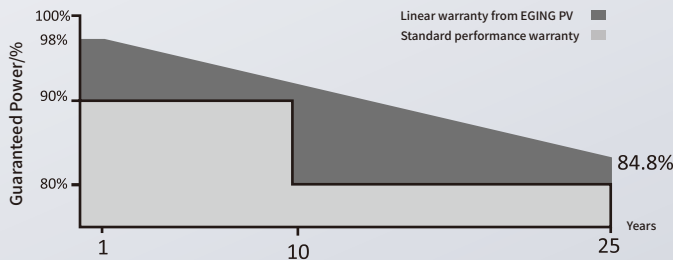
KEY FEATURES

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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

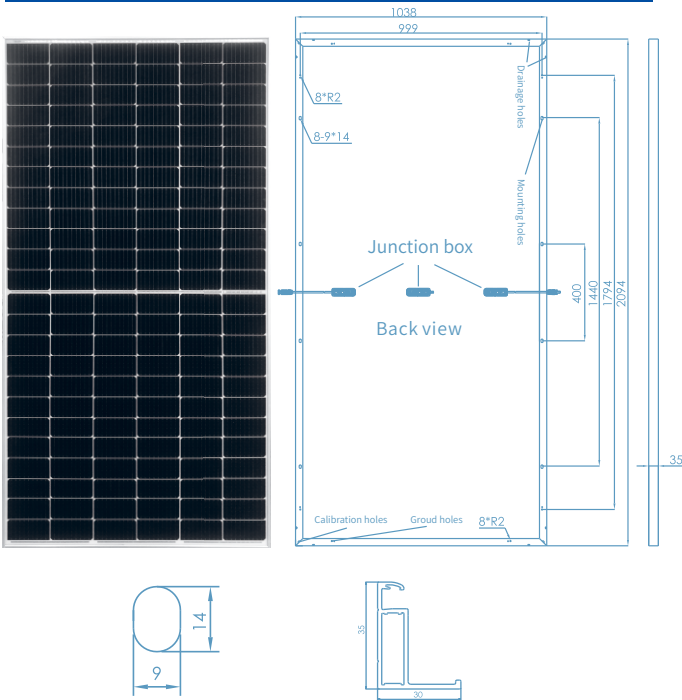
 12 Year Product Warranty  25 Year Linear Power Warranty



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				

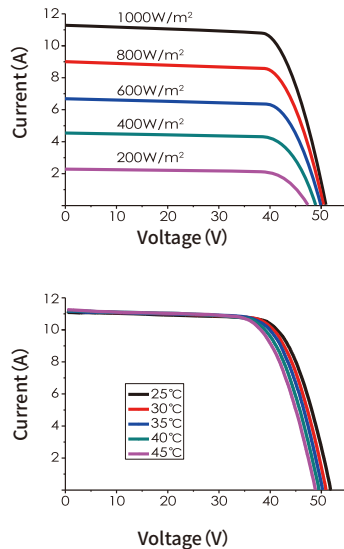
STC: Irradiance 1000W/m², module temperature 25°C, AM=1.5

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/m², ambient temperature 20°C, wind speed 1m/s

I-V Curves



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 ² , MC4 compatible
Length of Cable	Portrait: +300mm/-300mm

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

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Specifications included in this datasheet are subject to change without notice.



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