

CONVENTION SERIES MONOCRYSTALLINE

144-cell MODULE BIFACIAL

EG-455M72-HE/BF-DG

435~455W

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 frontside 20.93% and 25.12% with backside 20% power boost



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

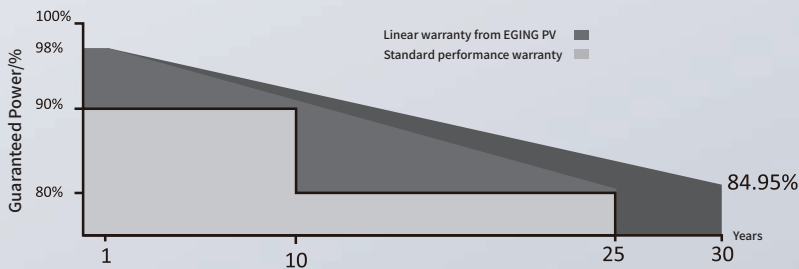


PID Resistant
Excellent PID resistance performance optimized by unique structural design



LINEAR PERFORMANCE WARRANTY

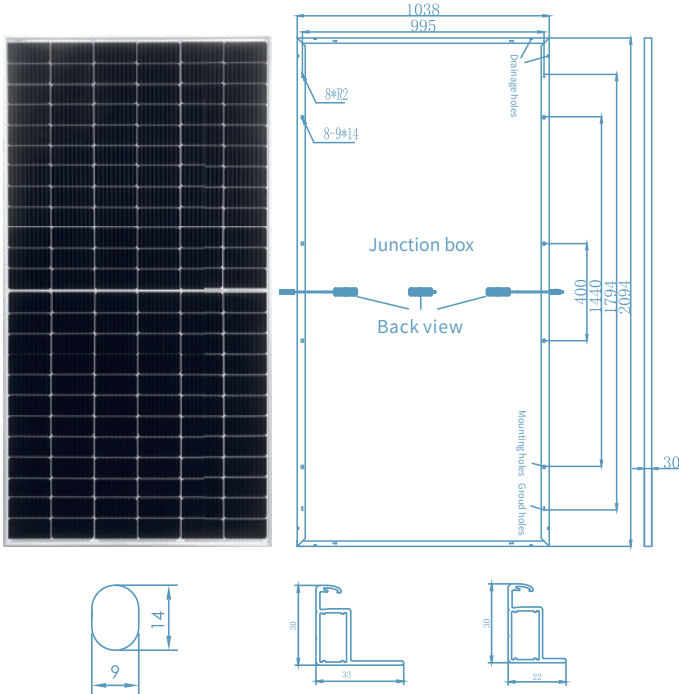
12 12 Year Product Warranty **30** 30 Year Linear Power Warranty



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-HE/BF-DG

Engineering Drawings



Electrical Characteristics

Power level	435	440	445	450	455
Pmax (W)	435	440	445	450	455
Vmp (V)	41.04	41.24	41.44	41.63	41.82
Imp (A)	10.60	10.67	10.74	10.81	10.88
Voc (V)	49.25	49.44	49.65	49.85	50.06
Isc (A)	11.11	11.17	11.24	11.31	11.38
Module efficiency (%)	20.01	20.24	20.47	20.70	20.93
Maximum system voltage (V)	1500				
Fuse Rating (A)	20				
Temperature coefficient Pmax (%°C)	-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

Bifacial Output-Backside Power Gain

	Pmax(W)	478	484	489	495	500
10%	Module efficiency (%)	21.99	22.27	22.50	22.77	23.00
20%	Pmax(W)	522	528	534	540	546
	Module efficiency (%)	24.02	24.29	24.57	24.84	25.12

Working Characteristics

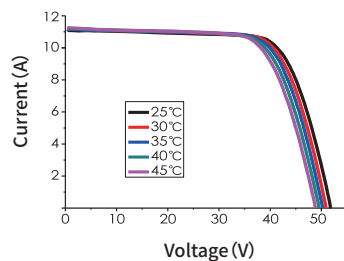
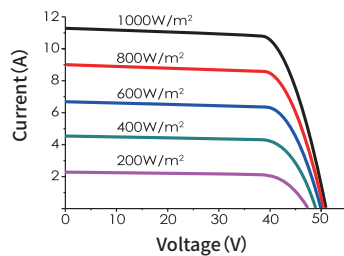
Power level	435	440	445	450	455
Pmax (W)	323	327	330	334	337
Vmp (V)	37.83	38.03	38.11	38.35	38.43
Imp (A)	8.54	8.60	8.66	8.71	8.77
Voc (V)	45.60	45.81	45.99	46.19	46.01
Isc (A)	8.96	9.05	9.10	9.16	9.20
Power tolerance (%)	0~+3				
NOCT (°C)	44±2				

NOCT: Conditions: Irradiance 800W/m², 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)	2.0
Type of frame	Anodized aluminum alloy
Junction box	IP68
Size of module (mm)	2094*1038*30
Weight (kg)	27.5
Cables/connectors	4mm ² , MC4 compatible
Length of Cabel	Portrait: +300mm/-300mm

I-V Curves



Packing Configuration

Pieces per pallet	36
Size of packing (mm)	2130*1140*1190
Weight of packing (kg)	1040
Pieces per container	792
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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