

EG-M72-HE/BF-DG MONOCRYSTALLINE 144-CELL MODULE BIFACIAL

430 ~ 450Wp

1500V DC

0~+3% POSITIVE TOLERANCE



* Black Frames Applied

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 20.70% and 24.84% with backside 20% power boost



Excellent Low-light Performance

Advanced solar cell surface texturing technology allows for excellent performance in low-light environments



High Reliability

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



Highly Strengthened Design

Framed Double Glass design ensures 30 years products lifetime

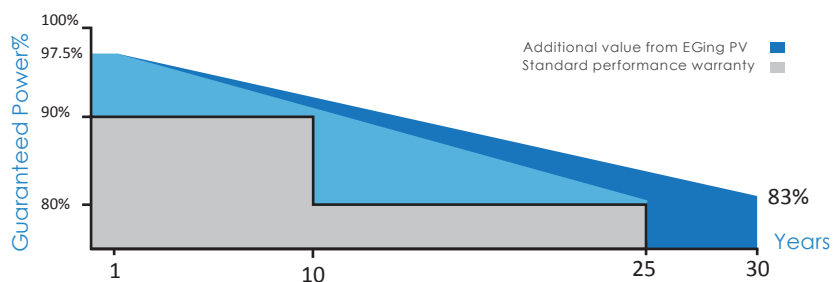


PID Resistant

Excellent PID resistance performance optimized by unique structural design

LINEAR PERFORMANCE WARRANTY

10 Year Product Warranty · 30 Year Linear Power Warranty



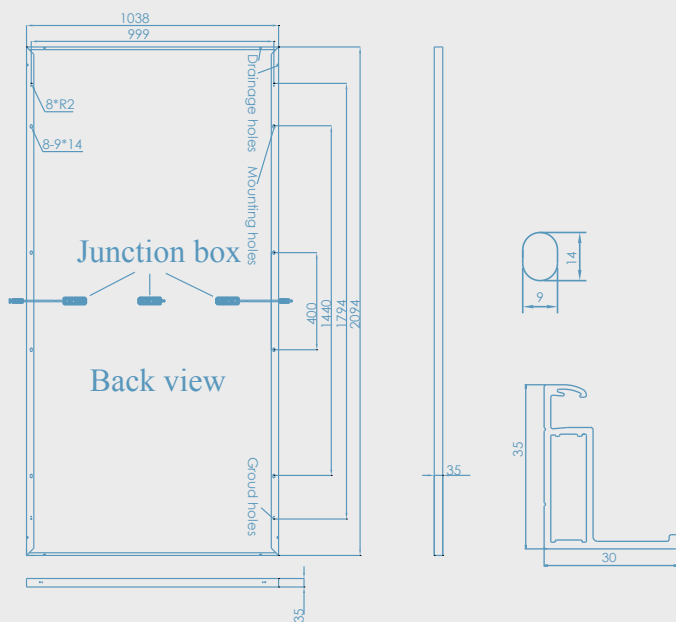
· ISO9001:2015, ISO14001:2015, ISO45001:2018
QC080000:2017, IEC TS 62941
certified factory

· IEC61215, IEC61730, UL1703, IEC62804, IEC62716
certified product

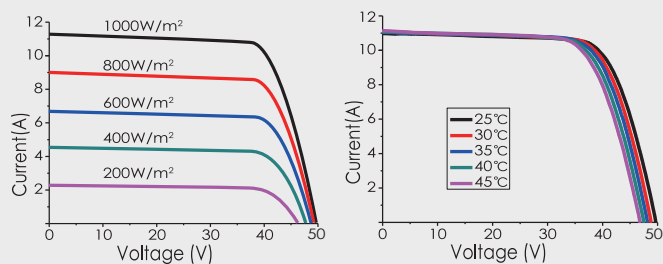


As a BloombergNEF Tier 1 and global leading manufacturer since 1998, Eging PV is committed to supplying reliable and durable PV products to customers to create together a greener planet.

Engineering Drawings



I - V Curves



Maximum Ratings

Operating Temperature(°C)	-40~85
Operating Humidity(%)	5~85
Allowable Hail Load	25mm ice - ball with velocity of 23m/s

Packing Configuration

Pieces per pallet	30
Size of packing (mm)	2130*1120*1190
Weight of packing (kg)	884
Pieces per container	660
Size of container	40' HC

Electrical Characteristics

STC	EG-430 M72-HE/ BF-DG	EG-435 M72-HE/ BF-DG	EG-440 M72-HE/ BF-DG	EG-445 M72-HE/ BF-DG	EG-450 M72-HE/ BF-DG
Pmax (W)	430	435	440	445	450
Vmp (V)	40.84	41.04	41.24	41.44	41.63
Imp (A)	10.53	10.60	10.67	10.74	10.81
Voc (V)	49.05	49.25	49.44	49.65	49.85
Isc (A)	11.04	11.11	11.17	11.24	11.31
Module efficiency (%)	19.78	20.01	20.24	20.47	20.70
Maximum system voltage (V)	1500				
Fuse Rating Current (A)	20				
Power tolerance (%)	0~+3				
Temperature coefficient	Pmax (%/°C)	-0.390			
	Isc (%/°C)	0.039			
	Voc (%/°C)	-0.295			

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

Bifacial Output-Backside Power Gain

10%	Pmax (W)	473	478	484	489	495
	Module efficiency (%)	21.76	21.99	22.26	22.49	22.77
20%	Pmax (W)	516	522	528	534	540
	Module efficiency (%)	23.74	24.01	24.29	24.56	24.84

NOCT	EG-430 M72-HE/ BF-DG	EG-435 M72-HE/ BF-DG	EG-440 M72-HE/ BF-DG	EG-445 M72-HE/ BF-DG	EG-450 M72-HE/ BF-DG
Pmax (W)	320	323	327	330	334
Vmp (V)	37.70	37.83	38.03	38.11	38.35
Imp (A)	8.49	8.54	8.60	8.66	8.71
Voc (V)	45.44	45.60	45.81	45.99	46.19
Isc (A)	8.90	8.96	9.05	9.10	9.16
Power tolerance (%)	0~+3				

NOCT: Irradiance 800W/m², ambient temperature 20°C, wind speed 1m/s

Mechanical Characteristics

Number of cells (pcs)	144
Size of cell (mm)	166*83
Type of cell	Mono
Size of module (mm)	2094*1038*35
Weight (kg)	27.8
Junction box	IP68
Cables/connectors	4mm ² MC4 compatible
Length of Cabel(mm)	1200