

STAR SERIES MONOCRYSTALLINE 144-cell MODULE BIFACIAL

EG-550M72-HL/BF-DG

530~550W

0~3% POSITIVE TOLERANCE

KEY FEATURES



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



High Efficiency
Leading PERC technology achieves higher module efficiency up to frontside 21.29% and 25.54% 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



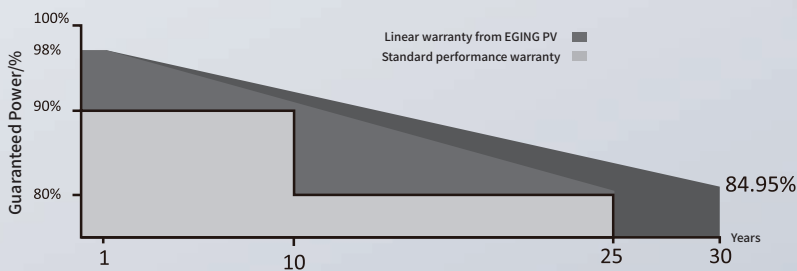
Highly Strengthened Design
Certified to withstand: 5400Pa snow load and 2400Pa wind load



PID Resistant
Excellent PID resistance performance optimized by unique structural design

LINEAR PERFORMANCE WARRANTY

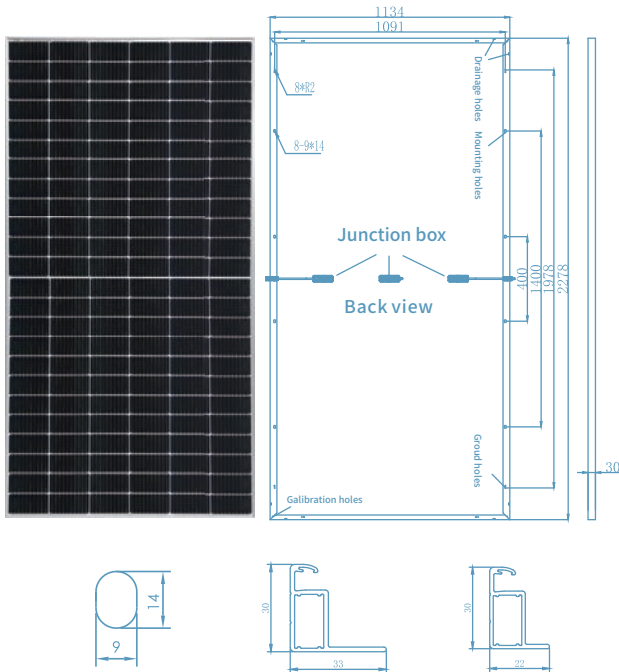
 12 Year Product Warranty  30 Year Linear Power Warranty



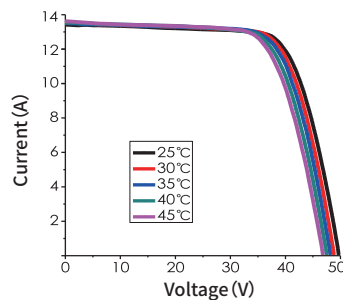
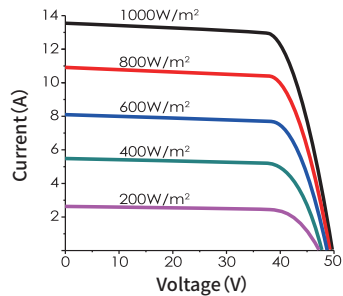
As a BloombergNEF Tier 1 and global leading manufacturer since 1998, EGING PV is committed to supplying reliable and durable PV products to customers to create together a greener planet.

EG-550M72-HL/BF-DG

Engineering Drawings



I-V Curves



Packing Configuration

Pieces per pallet	36
Size of packing (mm)	2320*1140*1275
Weight of packing (kg)	1186
Pieces per container	720
Size of container	40'HC

Electrical Characteristics

Power level	530	535	540	545	550
Pmax (W)	530	535	540	545	550
Vmp (V)	41.64	41.87	42.09	42.32	42.54
Imp (A)	12.73	12.78	12.83	12.88	12.93
Voc (V)	49.65	49.78	49.91	50.12	50.34
Isc (A)	13.48	13.53	13.58	13.63	13.68
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/m², module temperature 25°C, AM=1.5

Bifacial Output-Backside Power Gain

	Pmax(W)	583	588	594	599	605
10%	Module efficiency (%)	22.56	22.76	22.99	23.18	23.42
20%	Pmax(W)	636	642	648	654	660
	Module efficiency (%)	24.62	24.85	25.08	25.31	25.54

Working Characteristics

Power level	530	535	540	545	550
Pmax (W)	401	405	409	412	416
Vmp (V)	38.49	38.72	38.96	39.13	39.32
Imp (A)	10.42	10.46	10.50	10.53	10.58
Voc (V)	46.17	46.29	46.42	46.61	46.82
Isc (A)	11.03	11.07	11.11	11.16	11.20
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)	182*91
Type of cell	Mono
Thickness of glass (mm)	2.0
Type of frame	Anodized aluminum alloy
Junction box	IP68
Size of module (mm)	2278*1134*30
Weight (kg)	31.7
Cables/connectors	4mm ² , MC4 compatible
Length of Cabel	Portrait: +300mm/-300mm

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