

STAR SERIES MONOCRYSTALLINE 144-cell MODULE

EG-550M72-HLV

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



More Power
Innovative 182mm big cell applied to ensure module power up to 550W



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



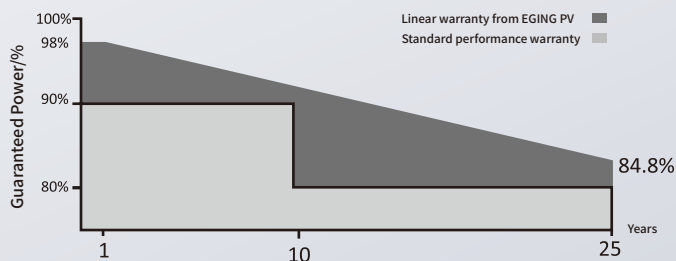
Highly Strengthened Design
Certified to withstand: 5400Pa snow load and 2400Pa wind load



PID Resistant
Excellent PID resistance performance optimized by unique structural design

LINEAR PERFORMANCE WARRANTY

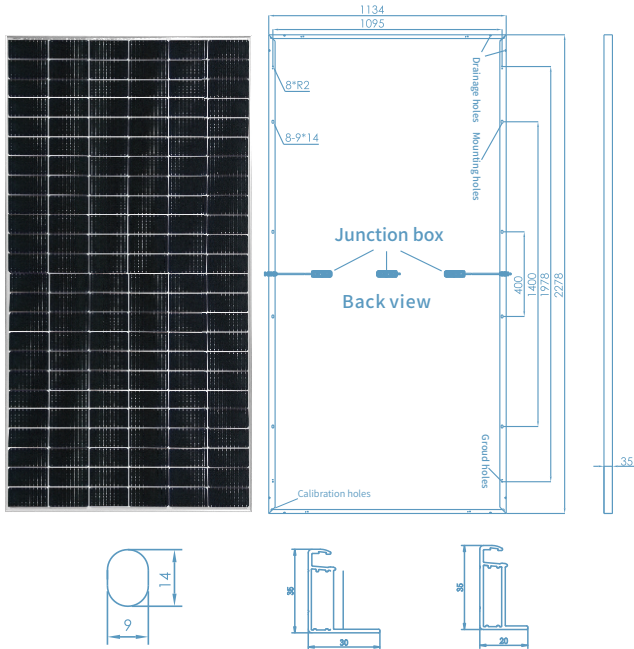
12 12 Year Product Warranty **25** 25 Year Linear Power Warranty



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-550M72-HLV

Engineering Drawings



Electrical Characteristics

Power level	530	535	540	545	550
Pmax (W)	530	535	540	545	550
Vmp (V)	41.57	41.80	42.03	42.25	42.48
Imp (A)	12.75	12.80	12.85	12.90	12.95
Voc (V)	49.63	49.76	49.89	50.10	50.32
Isc (A)	13.50	13.55	13.60	13.65	13.70
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				

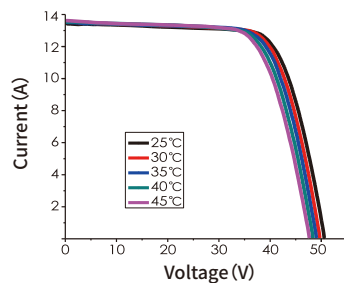
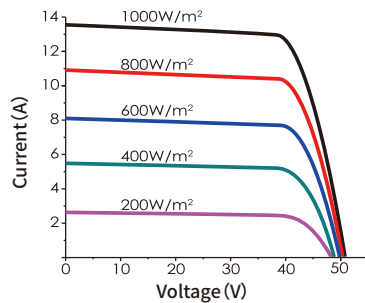
STC: Irradiance 1000W/m², module temperature 25°C, AM=1.5

Working Characteristics

Power level	530	535	540	545	550
Pmax (W)	401	405	409	412	416
Vmp (V)	38.45	38.65	38.88	39.02	39.25
Imp (A)	10.43	10.48	10.52	10.56	10.60
Voc (V)	46.16	46.28	46.40	46.59	46.80
Isc (A)	11.05	11.09	11.13	11.17	11.21
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)	182*91
Type of cell	Mono
Thickness of glass (mm)	3.2
Type of frame	Anodized aluminum alloy
Junction box	IP68
Size of module (mm)	2278*1134*35
Weight (kg)	27
Cables/connectors	4mm ² , MC4 compatible
Length of Cable	Portrait: +300mm/-300mm

Packing Configuration

Pieces per pallet	31
Size of packing (mm)	2320*1140*1275
Weight of packing (kg)	887
Pieces per container	620
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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