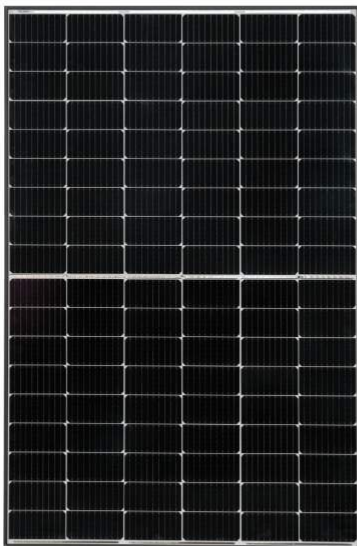


## EG-(SERIES)M54-HL

**108 HALF-CUT CELLS**  
MONOCRYSTALLINE MODULE

**390Wp-420Wp**  
POWER RANGE

**21.48%**  
MAXIMUM MODULE EFFICIENCY



\* Black Frames Applied



IEC/TS62941-PV Module Qualification Management  
ISO9001:2005- Factory Quality Management System  
ISO14001:2015- Environment Management System

Eging started its industrial manufacturing from 1995, and the PV division was founded in 2003. We are a high-tech company specialized in researching, developing, manufacturing and selling photovoltaic products. Eging has a full product lines including ingot, wafer, cell, and module. Our annual capacity reaches 5GW of solar cells and 5.5GW of solar modules by end of 2019. Eging is one of the ONLY there companies who are above the bankruptcy risk line among all of public listed solar companies according to BNFF(Bloomberg) report in Q3, 2019.

### 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 21.48%



#### 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 & VDE certified

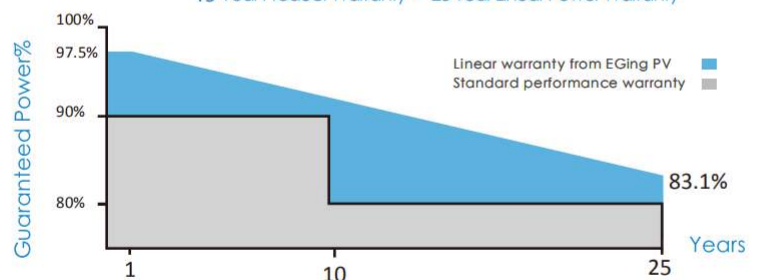


#### Highly Strengthened Design

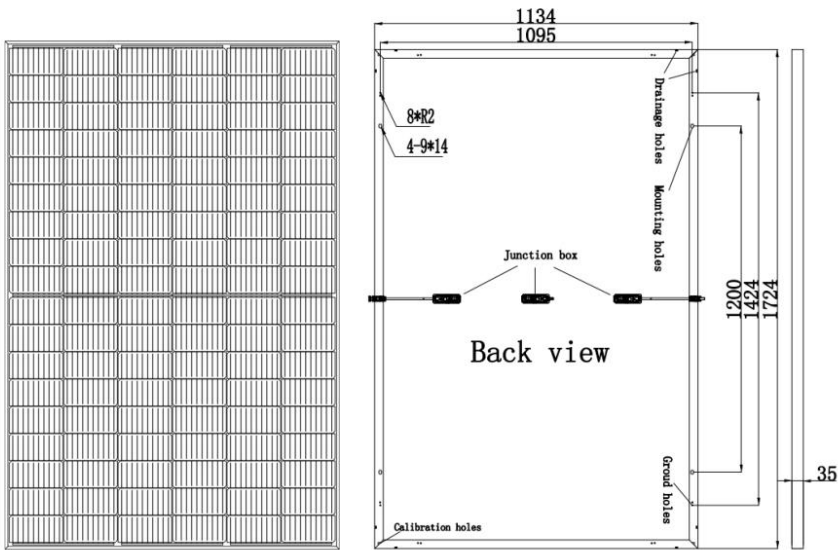
Certified to withstand: 5400Pa snow load and 2400Pa wind load

### LINEAR PERFORMANCE WARRANTY

15 Year Product Warranty · 25 Year Linear Power Warranty



As a BloombergNEF Tier 1 and global leading manufacturer since 2003, EGING PV is committed to supplying reliable and durable PV products to customers to create together a greener planet.



### Mechanical Characteristics

Number of cells (pcs)	108
Size of cell (mm)	182*91
Type of cell	Mono
Size of module (mm)	1724*1134*35
Weight (kg)	20.7
Junction box	IP68
Cables/connectors	H1Z2Z2-K 4mm <sup>2</sup> 01C1/05-8/ TL-Cable01S/Staubli MC4

### Maximum Ratings

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

### Electrical Characteristics

STC	EG-390 M54-HL	EG-400 M54-HL	EG-410 M54-HL	EG-415 M54-HL	EG-420 M54-HL
P <sub>max</sub> (W)	390	400	410	415	420
V <sub>mp</sub> (V)	30.79	31.28	31.76	32.00	32.24
I <sub>mp</sub> (A)	12.67	12.79	12.91	12.97	13.03
V <sub>oc</sub> (V)	36.69	37.18	37.66	37.90	38.14
I <sub>sc</sub> (A)	13.42	13.54	13.66	13.72	13.78
Module efficiency (%)	19.94	20.20	20.97	21.22	21.48
Maximum system volt-age (V)	1000				
Fuse Rating Current (A)	30				
Power tolerance (%)	P <sub>max</sub> :±3% Binning:±5W、V <sub>oc</sub> :±5%、I <sub>sc</sub> :5%				
Tem- per- a-ture co- effi- cient	P <sub>max</sub> (%/°C)	-0.390			
	I <sub>sc</sub> (%/°C)	0.039			
	V <sub>oc</sub> (%/°C)	-0.295			

STC: Irradiance 1000W/m<sup>2</sup>, module temperature 25°C, AM=1.5

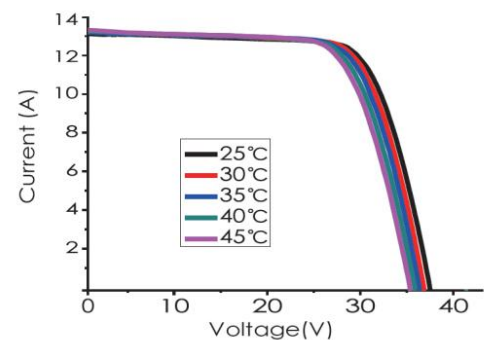
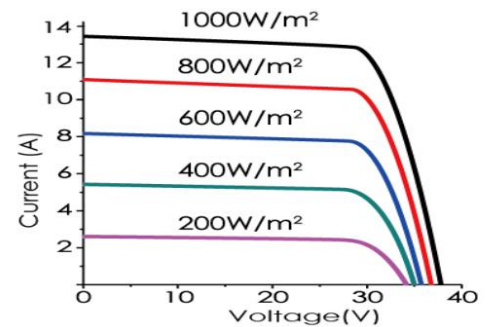
NOCT	EG-390 M54-HL	EG-400 M54-HL	EG-410 M54-HL	EG-415 M54-HL	EG-420 M54-HL
P <sub>max</sub> (W)	295	303	310	314	318
V <sub>mp</sub> (V)	28.45	28.94	29.36	29.60	29.84
I <sub>mp</sub> (A)	10.37	10.47	10.56	10.61	10.66
V <sub>oc</sub> (V)	34.13	34.58	35.03	35.25	35.48
I <sub>sc</sub> (A)	10.98	11.08	11.18	11.23	11.28
Power tolerance (%)	P <sub>max</sub> :±3% Binning:±5W				

NOCT: Irradiance 800W/m<sup>2</sup>, ambient temperature 20°C, wind speed 1m/s

### Packing Configuration

Pieces per pallet	27
Size of packing (mm)	1760*1140*1275
Weight of packing (kg)	604
Pieces per container	806
Size of container	40' HC

### I-V Curves



Revised in May, 2020

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