

# EG-(SERIES)M54-HL

**108 HALF-CUT CELLS**  
MONOCRYSTALLINE MODULE

**410Wp-425Wp**  
POWER RANGE

**21.73%**  
MAXIMUM MODULE EFFICIENCY



## KEY FEATURES



### Mbb half cell design

Half-cut cells brings lower resistance and increased Multi Busbar reflectance ensures higher power output



### More Power

Innovative 182mm big cell applied to ensure module power up to 425Wp



### Excellent Low-light Performance

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



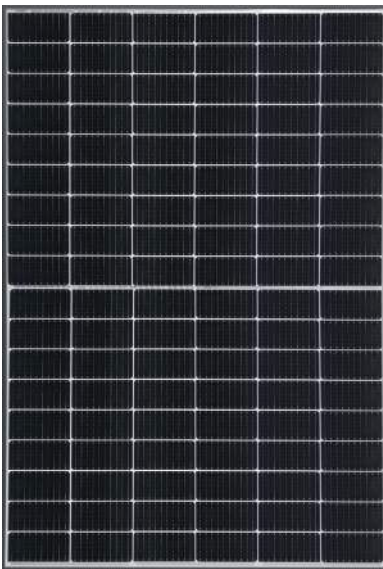
### High Reliability

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



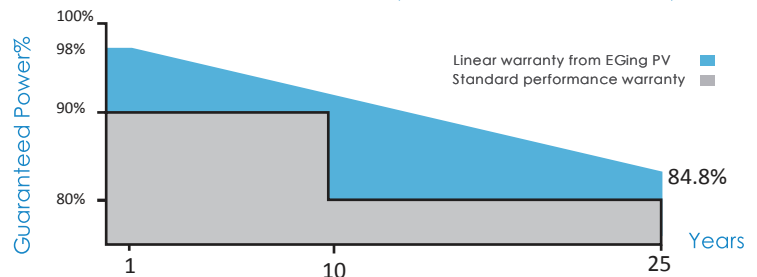
### Highly Strengthened Design

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



## LINEAR PERFORMANCE WARRANTY

15 Year Product Warranty · 25 Year Linear Power Warranty

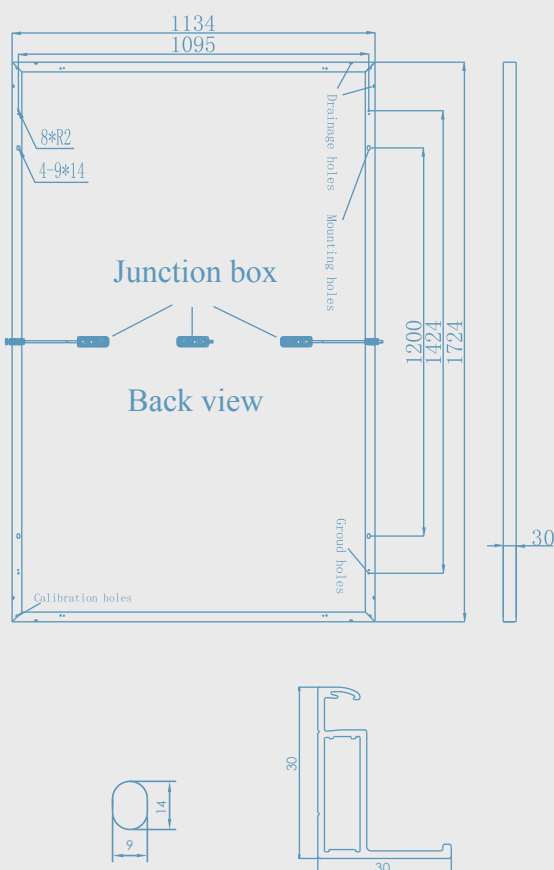


· ISO9001:2015, ISO14001:2015, ISO45001:2018  
QC080000:2017, IEC TS 62941  
certified factory

· 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.

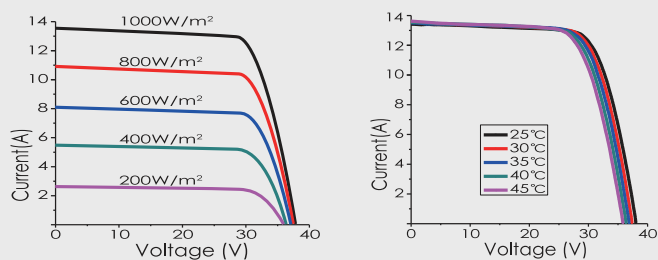
**Engineering Drawings**

**Electrical Characteristics**

STC	EG-410 M54-HL	EG-415 M54-HL	EG-420 M54-HL	EG-425 M54-HL
Pmax (W)	410	415	420	425
Vmp (V)	31.76	32	32.24	32.47
Imp (A)	12.91	12.97	13.03	13.09
Voc (V)	37.66	37.90	38.14	38.37
Isc (A)	13.66	13.72	13.78	13.84
Module efficiency (%)	20.97	21.22	21.48	21.73
Maximum system voltage (V)	1000			
Fuse Rating Current (A)	25			
Tolerance (%)	Pmax:±3% Binning:±5W Voc:±5% Isc:±5%			
Temperature coefficient	Pmax (%/°C)	-0.350		
	Isc (%/°C)	0.05		
	Voc (%/°C)	-0.275		

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

NOCT	EG-410 M54-HL	EG-415 M54-HL	EG-420 M54-HL	EG-425 M54-HL
Pmax (W)	310	314	318	322
Vmp (V)	29.36	29.60	29.84	30.07
Imp (A)	10.56	10.61	10.66	10.71
Voc (V)	35.03	35.25	35.48	35.69
Isc (A)	11.18	11.23	11.28	11.33
Power tolerance	Pmax:±3% Binning:±5W			

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

**I-V Curves**

**Packing Configuration**

Pieces per pallet	35
Size of packing (mm)	1760*1140*1275
Weight of packing (kg)	752
Pieces per container	910
Size of container	40' HC

**Mechanical Characteristics**

Number of cells (pcs)	108
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
Fire class	Class C
Size of module (mm)	1724*1134*30
Weight (kg)	20.2
Cables/connectors	H1Z2Z2-K 4mm <sup>2</sup> 01C1/05-8 TL-Cable01s / Staubli MC4
Length of Cabel(mm)	1200

**Maximum Ratings**

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

Revised in August, 2021

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