






STAR SERIES MONOCRYSTALLINE 108-cell MODULE

EG-415M54-HL

415W

KEY FEATURES

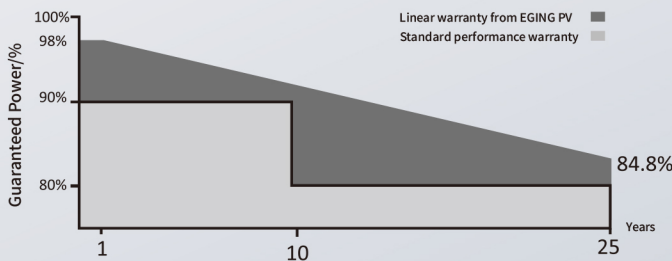
- 
Mbb half cell design
 Half-cut cells brings lower resistance and increased Multi Busbar reflectance ensures higher power output
- 
More Power
 Ensure module efficiency up to 21.22%
- 
High Reliability
 Strict in-house testing in PV Lab which is CNAS approved & TUV /VDE certified
- 
Excellent Low-light 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



LINEAR PERFORMANCE WARRANTY

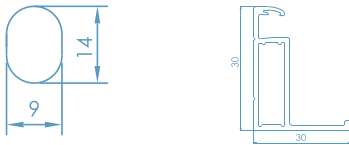
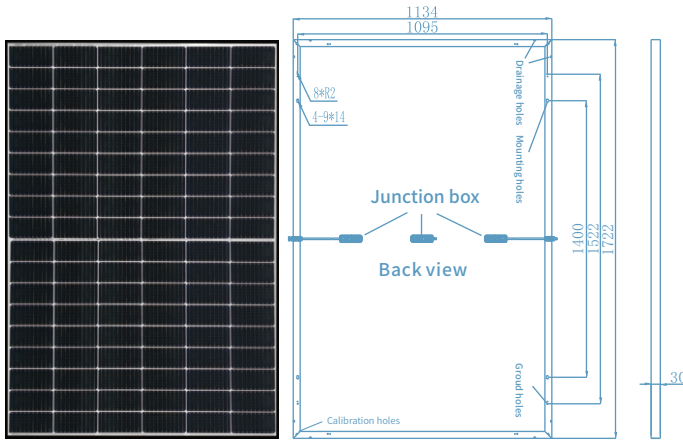
25 25 Year Product Warranty **25** 25 Year Linear Power Warranty

*Subject to the terms and conditions contained in the applicable EGING PV Limited Warranty Statement. Also this 25-year limited product warranty is available only for products installed and operating on residential rooftops in Australia.

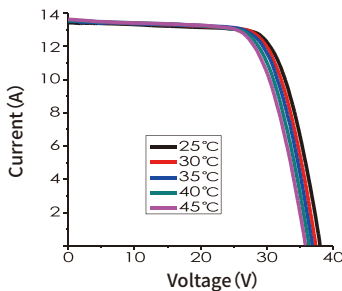
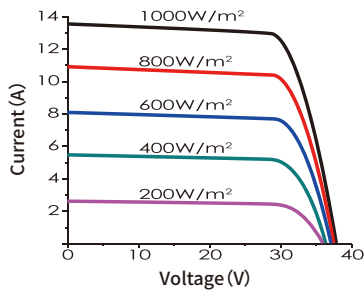


EG-415M54-HL

Engineering Drawings



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 |

Electrical Characteristics

| | |
|------------------------------------|--|
| Power level | 415 |
| Pmax (W) | 415 |
| Vmp (V) | 32.00 |
| Imp (A) | 12.97 |
| Voc (V) | 37.90 |
| Isc (A) | 13.72 |
| Module efficiency (%) | 21.22 |
| Maximum system voltage (V) | 1000 |
| Fuse Rating (A) | 25 |
| Power tolerance (%) | Pmax: ±3% Binning: ±5W Voc: ±5% Isc: ±5% |
| 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 | 415 |
| Pmax (W) | 314 |
| Vmp (V) | 29.60 |
| Imp (A) | 10.61 |
| Voc (V) | 35.25 |
| Isc (A) | 11.23 |
| Power tolerance (%) | Pmax: ±3% Binning: ±5W |
| NOCT (°C) | 44 ± 2 |

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

Mechanical Characteristics

| | |
|-------------------------|---|
| Number of cells | 108pcs |
| 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) | 1722*1134*30 |
| Weight (kg) | 20.2 |
| Cables/connectors | H12222-K 4mm ² 01C1/05-8 TL-Cable01s/Staubli MC4 |
| Length of Cabel | 1200mm |

Maximum Ratings

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

Revised in January 2022 1st Edition

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Specifications included in this datasheet are subject to change without notice.

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