

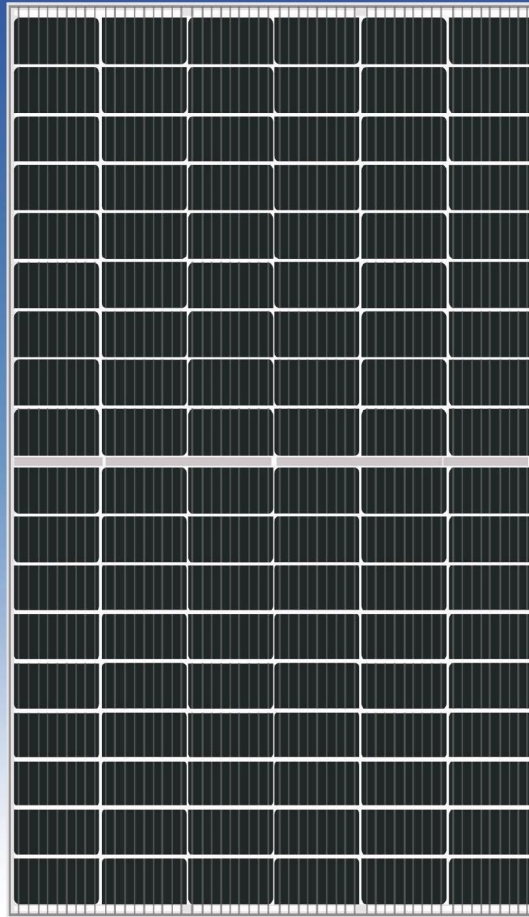


FULLNRG

GSM-M10/108H

400-420W

High Efficiency Mono PERC with Half-Cut Technology



420W
Maximum Power Output

21.5%
Maximum Module Efficiency

0~+5W
Power Output Guarantee

Cell Type



10BB(182mm)



Ideal choice for Residential and C&I Installation



Selected encapsulating material and stringent production process control ensure the product is highly PID resistant and snail trails free



Special cutting and soldering technology leads to low hotspot risk



Sand blowing test, salt mist test and ammonia test passed to endure harsh environments



Optimized system performance due to module level current sorting

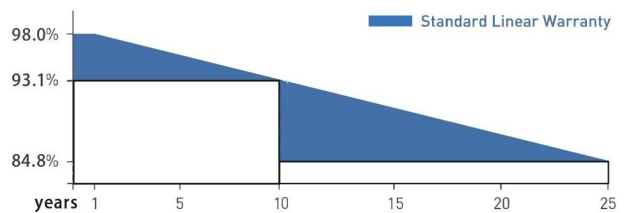


Highly transparent self-cleaning glass brings additional yield and easy maintenance

Delivers Reliable Performance Over Time

- manufacturer of crystalline silicon photovoltaic modules
- Fully automatic facility and world-class technology
- Rigorous quality control to meet the highest standard: ISO9001:2015, ISO14001: 2015 and OHSAS: 18001 2007
- Tested for harsh environments (salt mist, ammonia corrosion and sand blowing test: IEC 61701, IEC 62716, DIN EN 60068-2- 68)
- Long term reliability tests
- 2x100% EL inspection ensuring defect-free modules

Linear Performance Warranty



12 Years Product Warranty 25 Years Linear Power Warranty

*Please refer to standard warranty for details

Product certification



Electrical Specification (STC*)

| | | 400 | 405 | 410 | 415 | 420 |
|------------------------|----------------------|-------|-------|-------|-------|-------|
| Maximum Power | P _{max} (W) | 400 | 405 | 410 | 415 | 420 |
| Maximum Power Voltage | V _{mp} (V) | 31.18 | 31.38 | 31.59 | 31.80 | 32.01 |
| Maximum Power Current | I _{mp} (A) | 12.83 | 12.91 | 12.98 | 13.05 | 13.19 |
| Open Circuit Voltage | V _{oc} (V) | 37.04 | 37.24 | 37.45 | 37.66 | 37.87 |
| Short Circuit Current | I _{sc} (A) | 13.73 | 13.81 | 13.88 | 13.95 | 14.02 |
| Module Efficiency | (%) | 20.5 | 20.7 | 21.0 | 21.3 | 21.5 |
| Power Output Tolerance | (W) | 0~+5 | | | | |

* Irradiance 1000W/m², Module Temperature 25°C, Air Mass 1.5

Electrical Specification (NOCT*)

| | | 302 | 306 | 309 | 312 | 316 |
|-----------------------|----------------------|-------|-------|-------|-------|-------|
| Maximum Power | P _{max} (W) | 302 | 306 | 309 | 312 | 316 |
| Maximum Power Voltage | V _{mp} (V) | 28.80 | 29.00 | 29.20 | 29.40 | 29.70 |
| Maximum Power Current | I _{mp} (A) | 10.50 | 10.56 | 10.62 | 10.68 | 10.74 |
| Open Circuit Voltage | V _{oc} (V) | 34.80 | 35.00 | 35.20 | 35.40 | 35.70 |
| Short Circuit Current | I _{sc} (A) | 11.04 | 11.10 | 11.16 | 11.22 | 11.28 |

* Irradiance 800W/m², Ambient Temperature 20°C, Wind Speed 1m/s

Mechanical Data

| | |
|---------------------------------|--|
| Number of Cells | 108 Cells (6×18) |
| Dimensions of Module L*W*H (mm) | 1726×1134×30mm (67.95×44.64×1.18 inches) |
| Weight (kg) | 22.1 kg |
| Glass | High transparency solar glass 3.2mm (0.13 inches) |
| Backsheet | Black |
| Frame | Black Silver, anodized aluminium alloy |
| J-Box | IP68 Rated |
| Cable | 4.0mm ² (0.006 inches ²), 300mm (11.8 inches) |
| Number of diodes | 3 |
| Wind/ Snow Load | 2400Pa/ 5400Pa* |
| Connector | MC Compatible |

* For more details please check the installation manual

Temperature Ratings

| | |
|---|------------|
| Nominal Operating Cell Temperature (NOCT) | 44±2°C |
| Temperature Coefficient of I _{sc} | +0.048%/°C |
| Temperature Coefficient of V _{oc} | -0.270%/°C |
| Temperature Coefficient of P _{MAX} | -0.350%/°C |

Packaging Configuration

| | |
|--------------------------|------------|
| Module per box | 31 pieces |
| Module per 40' container | 806 pieces |

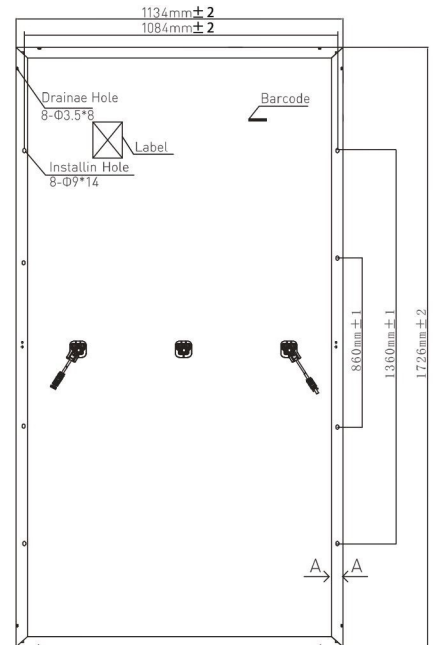
Maximum Ratings

| | |
|-------------------------|---------------|
| Operational Temperature | -40~+85°C |
| Maximum System Voltage | 1500V DC -(H) |
| Max Series Fuse Rating | 25A |

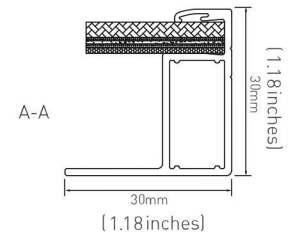
Optional

| | |
|-----------|---|
| Connector | <input checked="" type="checkbox"/> MC Original |
|-----------|---|

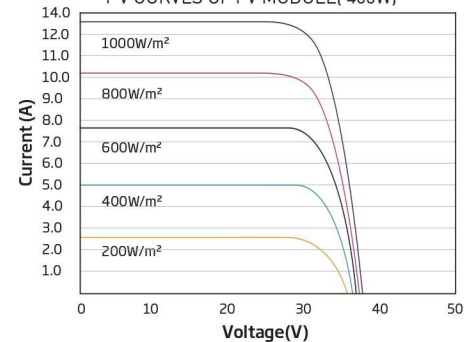
Module Dimension



Back View



I-V CURVES OF PV MODULE (400W)



P-V CURVES OF PV MODULE(400W)

