

LSHE-M410 M4 Series

Monocrystalline PV Panel



MBB Cell

New circuit design, lower internal current, lower internal resistance loss.



Higher Output Power

Module adopts 108pcs of 182×182mm half cells, the maximum power can reach 415W.



Harsh Environmental Adaptability

Strict salt spray and ammonia corrosion test by TUV.



Low Light Features

Higher performance under low light environment.



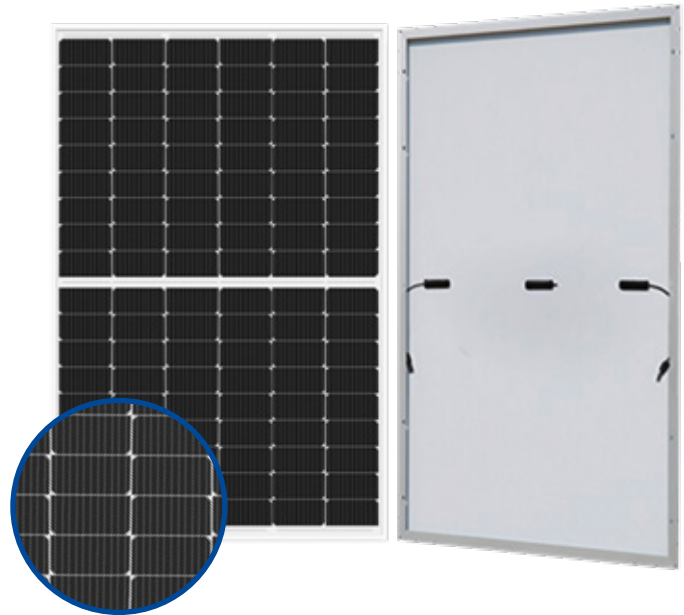
PID Protection

Ensure the attenuation probability caused by PID phenomenon is minimized.



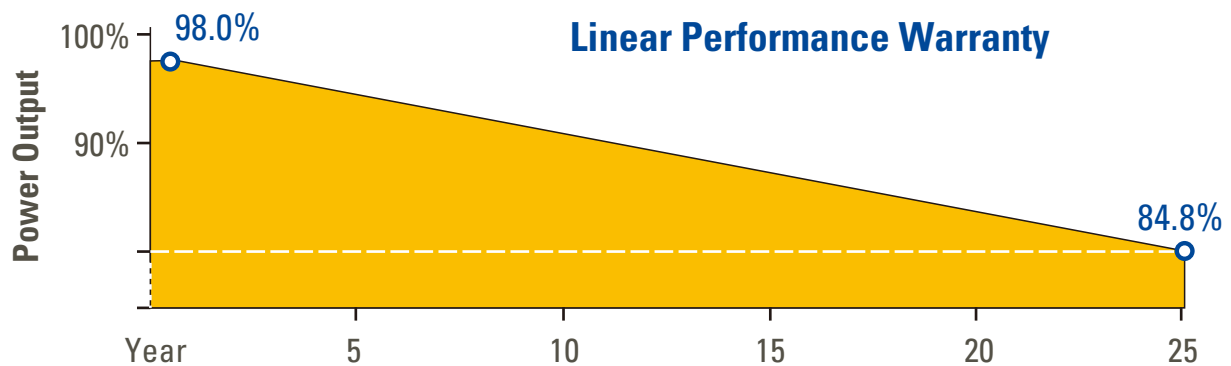
Load Capacity

Mechanical load tests including wind load 2400Pa and snow load 5400Pa done by TUV.



12+ Material & Workmanship warranty

25+ Linear power output warranty



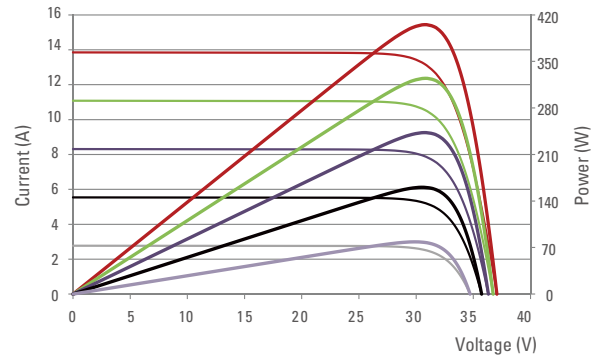
Electrical Parameters At Stc & Noct

| Module Type | | M410 | |
|-----------------------|---------------|-------|-------|
| | | STC | NOCT |
| Rated Maximum Power | P_{MAX} (W) | 410 | 305 |
| Maximum Power Voltage | V_{MP} (V) | 30.62 | 28.72 |
| Maximum Power Current | I_{MP} (A) | 13.39 | 10.62 |
| Open Circuit Voltage | V_{OC} (V) | 37.14 | 35.05 |
| Short Circuit Current | I_{SC} (A) | 13.92 | 11.24 |
| Module Efficiency | % | 20.98 | |

STC: Irradiance of 1000W/m², spectrum AM 1.5 and cell temp of 25°C

NOCT: Irradiance of 800W/m², spectrum AM 1.5, ambient temperature 20°C, wind speed 1m/s

Current Voltage And Power Voltage Curve



Mechanical Parameters

| | |
|------------------------|---|
| Cell Dimensions | 182 mm × 182 mm |
| Module Dimensions | 1723 mm × 1133 mm × 35 mm |
| Weight | 21.5 kg |
| Cell Amount | 54 × 2 pcs |
| Maximum System Voltage | 1500V |
| Junction Box | IP68 Rated |
| Frame | Aluminum Alloy |
| Cable | 4 mm ² , Landscape: N1100 mm/P1100 mm Portrait: N200 mm/P300 mm |
| Connector | MC4 compatible |
| Application Level | Class A |
| Packing | 1760 mm × 1122 mm × 1250 mm, 655 kgs / box; 1760 mm × 1122 mm × 2500 mm, 1322 kgs / pallet |
| Loading | 1 × 40HC, 26 boxes, 13 pallets, 31 pieces / box, 806 pieces in total |

Operating Parameters

| | |
|------------------------------------|-------------------|
| Wind Load / Snow Load | 2400 Pa / 5400 Pa |
| Output Tolerance | 0 ~ +5W |
| Nominal Operating Cell Temperature | 45 ± 2°C |
| Operating Temperature | -40°C ~ +85°C |
| Fuse Current | 25A |

Temperature Coefficient

| | |
|------------------------------|--------------|
| Temperature Coefficient Pmax | -0.35% / °C |
| Temperature Coefficient Voc | -0.28% / °C |
| Temperature Coefficient Isc | +0.048% / °C |

Certificate

IEC/EN61215, IEC/EN61730, IEC61701, IEC62716, IEC62804

Isc, Voc, Pmax Temperature Curve

