

# LSHE-M410-B 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.



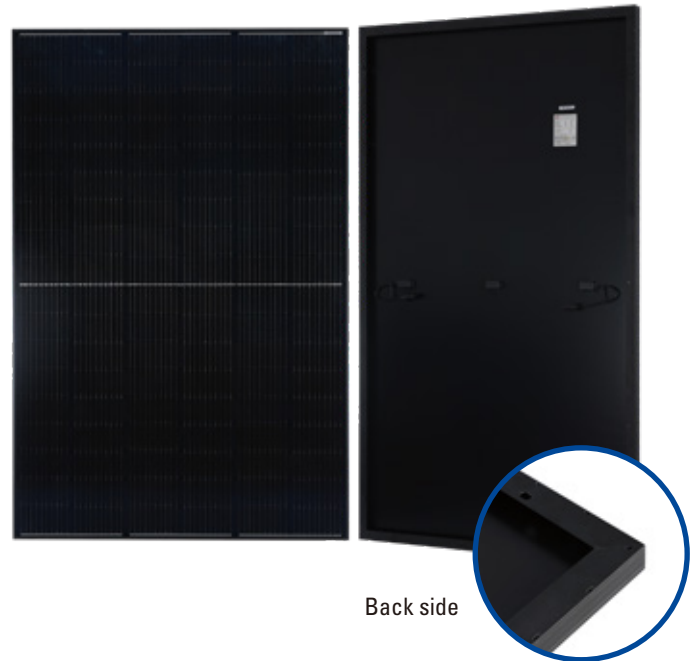
### PID Protection

Ensure the attenuation probability caused by PID phenomenon is minimized.



### Load Capacity

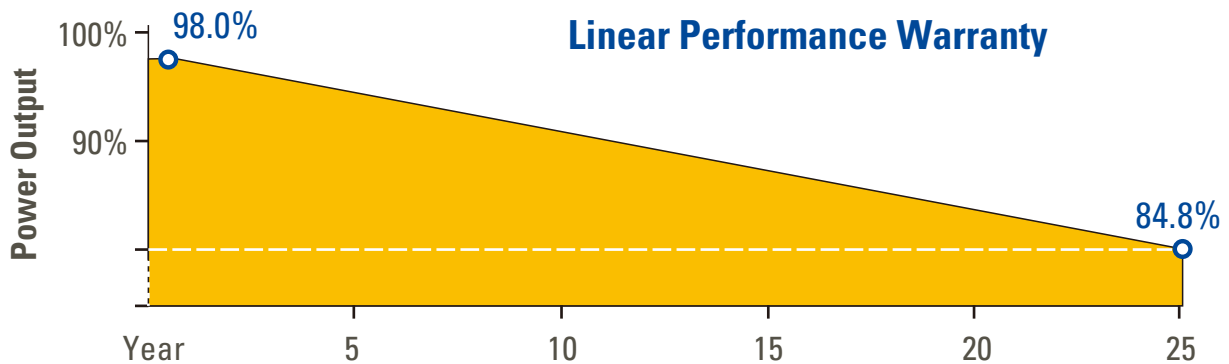
Mechanical load tests including wind load 2400Pa and snow load 5400Pa done by TUV.



Back side

12+ Material & Workmanship warranty

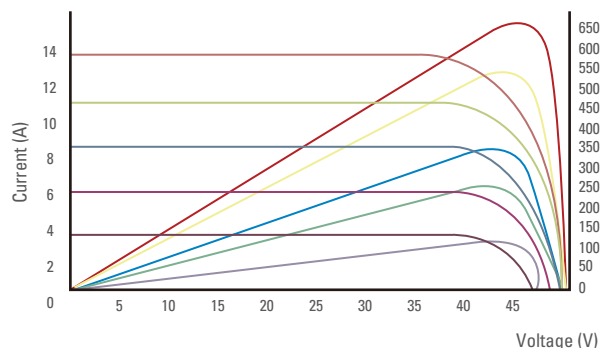
25+ Linear power output warranty



| Electrical Parameters At Stc & Noct |                      |       |       |
|-------------------------------------|----------------------|-------|-------|
| Module Type                         |                      | M410  |       |
|                                     |                      | STC   | NOCT  |
| Rated Maximum Power                 | P <sub>MAX</sub> (W) | 410   | 305   |
| Maximum Power Voltage               | V <sub>MP</sub> (V)  | 30.62 | 28.72 |
| Maximum Power Current               | I <sub>MP</sub> (A)  | 13.39 | 10.62 |
| Open Circuit Voltage                | V <sub>OC</sub> (V)  | 37.14 | 35.05 |
| Short Circuit Current               | I <sub>SC</sub> (A)  | 13.92 | 11.24 |
| Module Efficiency                   | %                    | 20.98 |       |

STC: Irradiance of 1000W/m<sup>2</sup>, spectrum AM 1.5 and cell temp of 25°C  
 NOCT: Irradiance of 800W/m<sup>2</sup>, 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 × 1134 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 <sup>2</sup> , Landscape: N1100 mm/P1100 mm<br>Portrait: N200 mm/P300 mm                 |
| Connector  | MC4 compatible  |
| Application Level                                      | Class A   |
| Packing  | 1760 mm × 1122 mm × 1250 mm, 655 kgs / box;<br>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                                |   |
| Temp Coefficient of Pmax                               | -0.35% / °C   |
| Temp Coefficient of Voc                                | -0.28% / °C   |
| Temp Coefficient of ISC                                | +0.048% / °C  |
| Certificate  |   |
| IEC/EN61215, IEC/EN61730, IEC61701, IEC62716, IEC62804 |   |

Isc, Voc, Pmax Temperature Curve

