



Mono

Bifacial Mono PERC 465W Module LS-HM672BG-440-465

Introduction

This time-tested legacy module series has been proven to be one of the powerful and most reliable products offered by LS Solar and the most popular choice by PV system installers and customers around world.



M busbar solar cell design



Low cost



Anti-PID



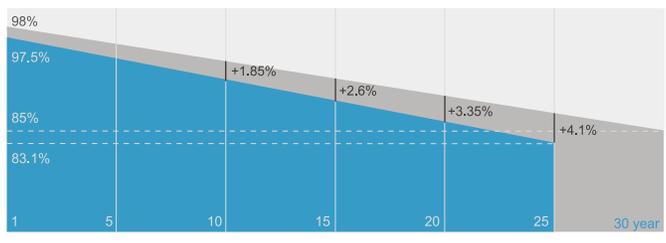
Highly reliable due to strict quality control



Superior Warranty

- 12-year product warranty
- 30-year linear power output warranty

0.45% Annual Degradation Over 30 years



■ Bifacial double glass module linear power warranty ■ Standard module linear power warranty

Comprehensive Certificates

- IEC 61215, IEC 61730, IEC TS 62804, IEC 61701, IEC 62716, IEC 60068-2-68
- ISO 9001: 2015 Quality management systems
- ISO 14001: 2015 Environmental management systems
- OHSAS 18001: 2007 Occupational health and safety management systems
- IEC TS 62941: 2016 Terrestrial photovoltaic (PV) modules – Guidelines for increased confidence in PV module design qualification and type approval



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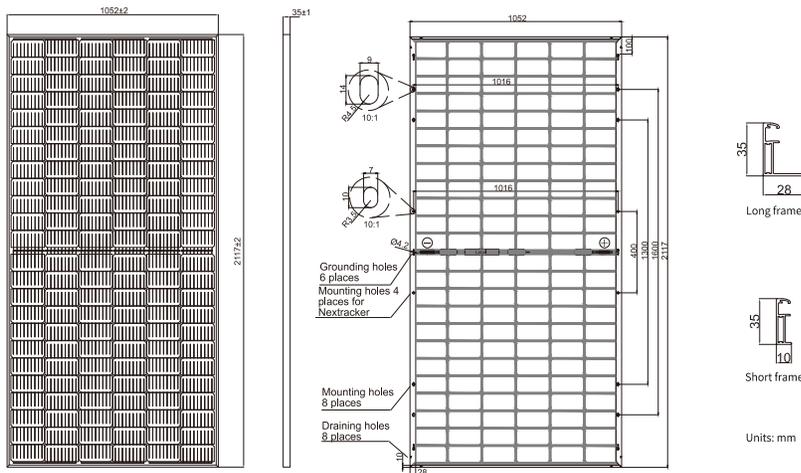
www.lustersolar.com

Specifications subject to technical changes and tests. Luster Solar reserves the right of final interpretation.



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MECHANICAL DIAGRAMS



Remark: customized frame color and cable length available upon request

SPECIFICATIONS

| | |
|------------------------------------|--|
| Cell | Mono |
| Weight | 27.3kg±3% |
| Dimensions | 2117±2mm×1052±2mm×35±1mm |
| Cable Cross Section Size | 4mm ² (IEC), 12 AWG(UL) |
| No. of cells | 144(6×24) |
| Junction Box | IP68, 3 diodes |
| Connector | MC4 Compatible |
| Cable Length (Including Connector) | Portrait:300mm(+)/400mm(-); Landscape:1200mm(+)/1200mm(-) |
| Front Glass/Back Glass | 2.0mm/2.0mm |
| Packaging Configuration | 30pcs/pallet, 600pcs/40ft Container |

ELECTRICAL PARAMETERS AT STC

| TYPE | LS-HM672BG -440 | LS-HM672BG -445 | LS-HM672BG -450 | LS-HM672BG -455 | LS-HM672BG -460 | LS-HM672BG -465 |
|---|---|--------------------|--------------------|--------------------|--------------------|--------------------|
| Rated Maximum Power(Pmax) [W] | 440 | 445 | 450 | 455 | 460 | 465 |
| Open Circuit Voltage(Voc) [V] | 49.30 | 49.45 | 49.61 | 49.75 | 49.91 | 50.05 |
| Maximum Power Voltage(Vmp) [V] | 40.60 | 40.91 | 41.21 | 41.52 | 41.79 | 42.09 |
| Short Circuit Current(Isc) [A] | 11.33 | 11.38 | 11.42 | 11.46 | 11.50 | 11.55 |
| Maximum Power Current(Imp) [A] | 10.84 | 10.88 | 10.92 | 10.96 | 11.01 | 11.05 |
| Module Efficiency [%] | 19.8 | 20.0 | 20.2 | 20.4 | 20.7 | 20.9 |
| Power Tolerance | 0~+5W | | | | | |
| Temperature Coefficient of Isc(α_{Isc}) | +0.044%/°C | | | | | |
| Temperature Coefficient of Voc(β_{Voc}) | -0.272%/°C | | | | | |
| Temperature Coefficient of Pmax(γ_{Pmp}) | -0.354%/°C | | | | | |
| STC | Irradiance 1000W/m ² , cell temperature 25°C, AM1.5G | | | | | |

Remark: Electrical data in this catalog do not refer to a single module and they are not part of the offer.They only serve for comparison among different module types.

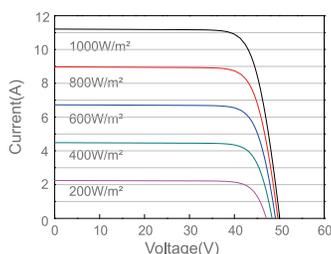
ELECTRICAL CHARACTERISTICS WITH 10% SOLAR IRRADIATION RATIO

OPERATING CONDITIONS

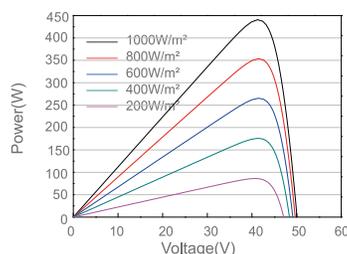
| TYPE | LS-HM672BG -440 | LS-HM672BG -445 | LS-HM672BG -450 | LS-HM672BG -455 | LS-HM672BG -460 | LS-HM672BG -465 | Operating Conditions |
|---|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--|
| Rated Max Power(Pmax) [W] | 471 | 476 | 482 | 487 | 492 | 498 | Maximum System Voltage: 1500V DC |
| Open Circuit Voltage(Voc) [V] | 49.40 | 49.55 | 49.71 | 49.85 | 50.01 | 50.15 | Operating Temperature: -40°C~+85°C |
| Max Power Voltage(Vmp) [V] | 40.59 | 40.90 | 41.21 | 41.51 | 41.78 | 42.08 | Maximum Series Fuse: 25A |
| Short Circuit Current(Isc) [A] | 12.12 | 12.18 | 12.22 | 12.26 | 12.31 | 12.36 | Maximum Static Load, Front*: 5400Pa(112 lb/ft ²) Maximum Static Load, Back*: 2400Pa(50 lb/ft ²) |
| Max Power Current(Imp) [A] | 11.60 | 11.64 | 11.68 | 11.73 | 11.78 | 11.82 | NOCT: 45±2°C |
| Irradiation Ratio (rear/front) | 10% | | | | | | Bifaciality**: 70%±10% |
| *For NexTracker installations static loading performance: front load measure 2400Pa, while back load measures 2400Pa. **Bifaciality=Pmax,rear/Rated Pmax,front | | | | | | | Fire Performance: UL Type 29 |

CHARACTERISTICS

Current-Voltage Curve LS-HM672BG-440



Power-Voltage Curve LS-HM672BG-440



Current-Voltage Curve LS-HM672BG-440

