



Mono

470W Module

LS-HM672-445-470

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



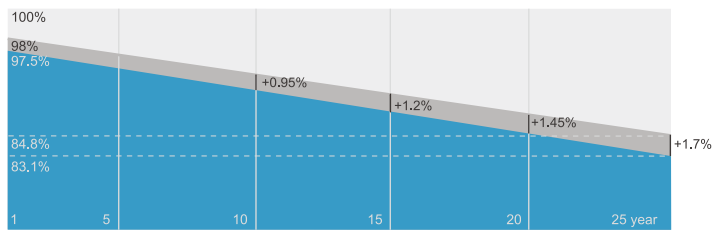
Highly reliable due to strict quality control



Superior Warranty

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

0.55% Annual Degradation Over 25 years



■ LS Linear Power Warranty ■ Industry 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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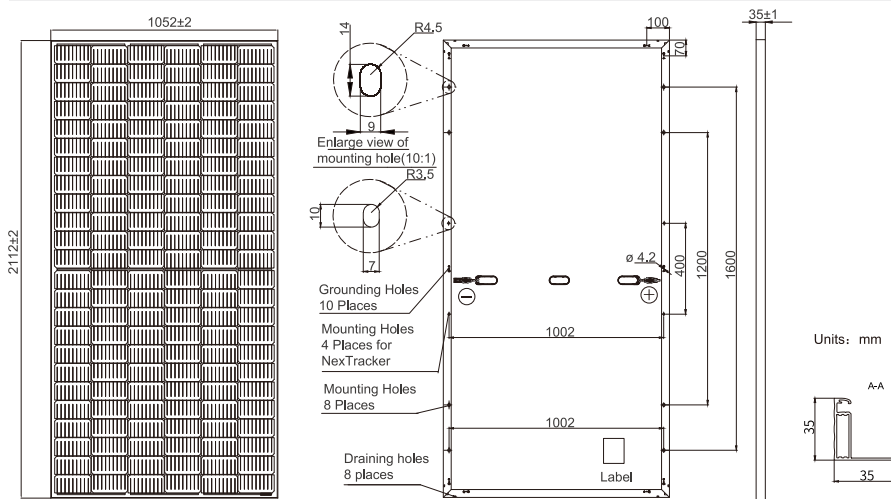
www.lustersolar.com

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	24.7kg±3%
Dimensions	2112±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(-)
Packaging Configuration	31pcs/pallet 682pcs/40ft Container

ELECTRICAL PARAMETERS AT STC

TYPE	LS-HM672-445	LS-HM672-450	LS-HM672-455	LS-HM672-460	LS-HM672-465	LS-HM672-470
Rated Maximum Power(Pmax) [W]	445	450	455	460	465	470
Open Circuit Voltage(Voc) [V]	49.56	49.70	49.85	50.01	50.15	50.31
Maximum Power Voltage(Vmp) [V]	41.21	41.52	41.82	42.13	42.43	42.69
Short Circuit Current(Isc) [A]	11.32	11.36	11.41	11.45	11.49	11.53
Maximum Power Current(Imp) [A]	10.80	10.84	10.88	10.92	10.96	11.01
Module Efficiency [%]	20.0	20.3	20.5	20.7	20.9	21.2
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})	-0.350%/°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 PARAMETERS AT NOCT

TYPE	LS-HM672-445	LS-HM672-450	LS-HM672-455	LS-HM672-460	LS-HM672-465	LS-HM672-470
Rated Max Power(Pmax) [W]	336	340	344	348	352	355
Open Circuit Voltage(Voc) [V]	46.65	46.90	47.15	47.38	47.61	47.84
Max Power Voltage(Vmp) [V]	38.95	39.19	39.44	39.68	39.90	40.10
Short Circuit Current(Isc) [A]	9.20	9.25	9.29	9.33	9.38	9.42
Max Power Current(Imp) [A]	8.64	8.68	8.72	8.76	8.81	8.86
NOCT	Irradiance 800W/m ² , ambient temperature 20°C, wind speed 1m/s, AM1.5G					

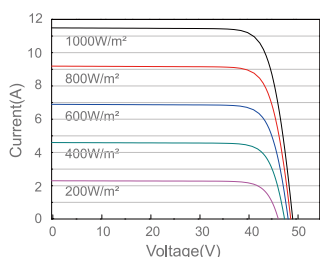
*For NexTracker installations ,Maximum Static Load, Front is 1800Pa while Maximum Static Load, Back is 1800Pa.

OPERATING CONDITIONS

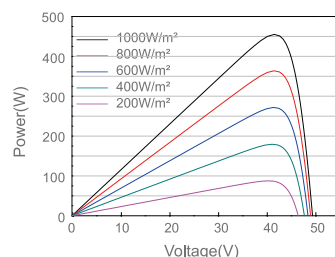
Maximum System Voltage	1000V/1500V DC
Operating Temperature	-40°C~+85°C
Maximum Series Fuse Rating	20A
Maximum Static Load,Front*	5400Pa(112 lb/ft ²)
Maximum Static Load,Back*	2400Pa(50 lb/ft ²)
NOCT	45±2°C
Safety Class	Class II
Fire Performance	UL Type 1

CHARACTERISTICS

Current-Voltage Curve LS-HM672-455



Power-Voltage Curve LS-HM672-455



Current-Voltage Curve LS-HM672-455

