



**Mono**

# Bifacial Mono PERC 550W Module LS-HM872BG-525-550

## 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



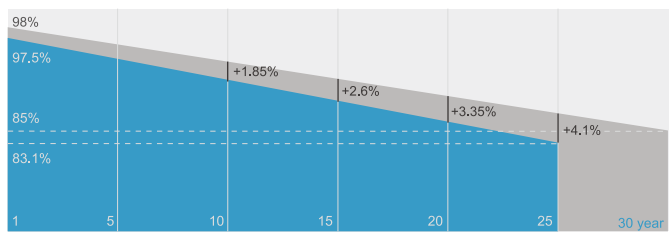
Highly reliable due to strict quality control



## 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



# LUSTER SOLAR

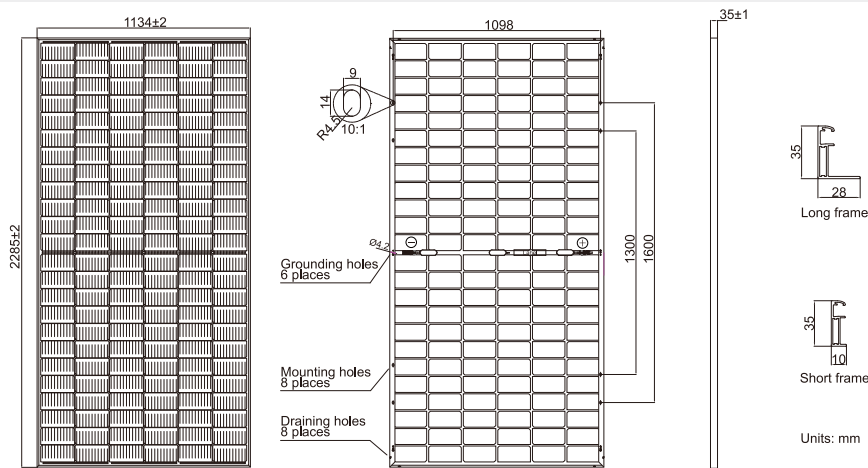
[www.lustersolar.com](http://www.lustersolar.com)

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



# LUSTER SOLAR

## MECHANICAL DIAGRAMS



Remark: customized frame color and cable length available upon request

## SPECIFICATIONS

Cell	Mono
Weight	31.6kg±3%
Dimensions	2285±2mm×1134±2mm×35±1mm
Cable Cross Section Size	4mm <sup>2</sup> (IEC), 12 AWG(UL)
No. of cells	144(6×24)
Junction Box	IP68, 3 diodes
Connector	<b>MC4 Compatible</b>
Cable Length (Including Connector)	Portrait:300mm(+)/400mm(-); Landscape:1300mm(+)/1300mm(-)
Front Glass/Back Glass	2.0mm/2.0mm
Packaging Configuration	31pcs/Pallet, 620pcs/40ft Container

## ELECTRICAL PARAMETERS AT STC

TYPE	LS-HM872BG -525	LS-HM872BG -530	LS-HM872BG -535	LS-HM872BG -540	LS-HM872BG -545	LS-HM872BG -550
Rated Maximum Power(Pmax) [W]	525	530	535	540	545	550
Open Circuit Voltage(Voc) [V]	49.15	49.30	49.45	49.60	49.75	49.90
Maximum Power Voltage(Vmp) [V]	41.15	41.31	41.47	41.64	41.80	41.96
Short Circuit Current(Isc) [A]	13.65	13.72	13.79	13.86	13.93	14.00
Maximum Power Current(Imp) [A]	12.76	12.83	12.90	12.97	13.04	13.11
Module Efficiency [%]	20.3	20.5	20.6	20.8	21.0	21.2
Power Tolerance	0~+5W					
Temperature Coefficient of Isc( $\alpha_{Isc}$ )	+0.045%/°C					
Temperature Coefficient of Voc( $\beta_{Voc}$ )	-0.275%/°C					
Temperature Coefficient of Pmax( $\gamma_{Pmp}$ )	-0.350%/°C					
STC	Irradiance 1000W/m <sup>2</sup> , cell temperature 25°C, AM1.5G					

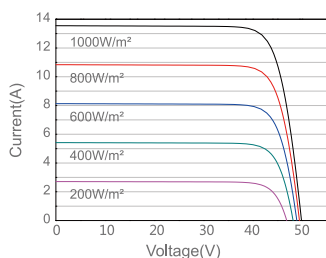
Remark: Electrical data in this catalog do not refer to a single module and they are not part of the offer.They only serve for comparison among different module types.

## ELECTRICAL CHARACTERISTICS WITH DIFFERENT POWER RANGES ( REFERENCE TO 10% SOLAR ILLUMINANCE RATIO)

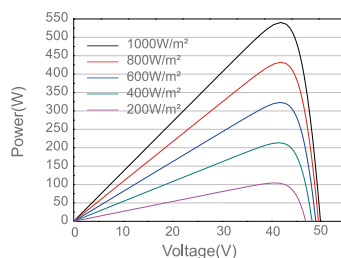
TYPE	LS-HM872BG -525	LS-HM872BG -530	LS-HM872BG -535	LS-HM872BG -540	LS-HM872BG -545	LS-HM872BG -550	OPERATING CONDITIONS	
Rated Max Power(Pmax) [W]	562	567	572	578	583	589	Maximum System Voltage	1500V DC
Open Circuit Voltage(Voc) [V]	49.54	49.67	49.80	49.93	50.03	50.21	Operating Temperature	-40°C~+85°C
Max Power Voltage(Vmp) [V]	41.53	41.77	41.99	42.24	42.43	42.67	Maximum Series Fuse Rating	30A
Short Circuit Current(Isc) [A]	14.34	14.39	14.45	14.50	14.56	14.63	Maximum Static Load,Front* Maximum Static Load,Back*	5400Pa(112 lb/ft <sup>2</sup> ) 2400Pa(50 lb/ft <sup>2</sup> )
Max Power Current(Imp) [A]	13.52	13.58	13.63	13.69	13.74	13.79	NOCT	45±2°C
**Bifaciality=Pmax,rear/Rated Pmax,front							Bifaciality**	70%±10%
							Fire Performance	UL Type 29

## CHARACTERISTICS

Current-Voltage Curve LS-HM872BG-540



Power-Voltage Curve LS-HM872BG-540



Current-Voltage Curve LS-HM872BG-540

