

**For a Free Quote:**

**Web: [EnergyPal.com/solar](http://EnergyPal.com/solar)**

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# **EnergyPal**

## **Solar Panel Guide Specification Data Sheet**

**Lightway Green New Energy Co., Ltd.  
Mono LW6M72-5BB  
LW6M72-365**

Also available on the web at  
[EnergyPal.com/lightway-green-new-energy-co-ltd-solar-panels/lw6m72-365](http://EnergyPal.com/lightway-green-new-energy-co-ltd-solar-panels/lw6m72-365)



# LIGHTWAY SOLAR MODULE

## LW6M72 Series KEY FEATURES

**19.59%**  
Max Efficiency

**380W**  
Max Peak Power

**10YEAR**  
Product Warranty

**25YEAR**  
Linear Power Warranty



### Positive Tolerance 0-5W

Provides our customers with maximum power output



### Electric Current Classification

System output maximized by reducing mismatch losses up to 2% with modules sorted and package by amperage



### Excellent Weak Light Performance

Relative change of module efficiency at 200W/m<sup>2</sup> is less than 4%



### Upto 5400Pa Mechanical Load

Module certified to withstand extreme snow load



### Passed Ammonia Gas And Salt Mist Corrosion Resistance Test

Tested and approved by TUV according IEC 62716 and IEC 61701



### PID-Free

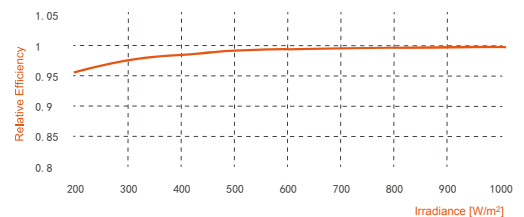
Module without potential induced degradation even under high temperature and high relative humidity condition



### System Certification

ISO 9001:2015, ISO 14001:2015, BS OHSAS 18001:2007

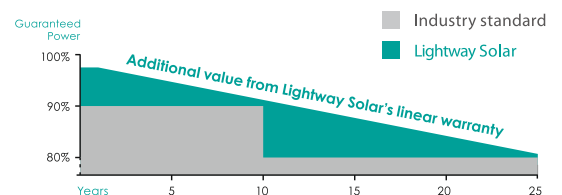
### PERFORMANCE AT LOW IRRADIANCE



The typical relative change in module efficiency at an irradiance of 200W/m<sup>2</sup> in relation to 1000W/m<sup>2</sup> (both at 25°C and AM 1.5 spectrum) is less than 4%.

### LINEAR WARRANTY

- 10-year warranty on materials and workmanship
- 25-year warranty > 80% power output
- 3% degradation rate the first year
- 0.70% yearly linear degradation



## ELECTRICAL DATA @ STC

Values at standard test condition STC: air mass AM 1.5, irradiance 1000W/m<sup>2</sup>, cells temperature 25 C.

Module Type		LW6M72-380(W)	LW6M72-375(W)	LW6M72-370(W)	LW6M72-365(W)	LW6M72-360(W)
Peak Power_Pmax	W	380	375	370	365	360
Power tolerance_ΔPmax	W	0,+5				
Voltage at Pmax_Vmpp	V	40.02	39.79	39.56	39.28	39.03
Current at Pmax_Imp	A	9.50	9.43	9.36	9.30	9.23
Open Circuit Voltage_Voc	V	48.64	48.42	48.20	47.95	47.70
Short Circuit Current_Isc	A	9.97	9.91	9.85	9.80	9.73
Module Efficiency_η		19.59%	19.34%	19.07%	18.81%	18.55%

## ELECTRICAL DATA @ NOCT

Nominal operating cell temperature NOCT: irradiance 800W/m<sup>2</sup>, ambient temperature 20 C, wind speed 1m/s.

Module Type		LW6M72-380(W)	LW6M72-375(W)	LW6M72-370(W)	LW6M72-365(W)	LW6M72-360(W)
Peak Power_Pmax	W	282.80	279.27	275.39	271.92	267.94
Voltage at Pmax_Vmpp	V	38.32	38.10	37.88	37.61	37.37
Current at Pmax_Imp	A	7.38	7.33	7.27	7.23	7.17
Open Circuit Voltage_Voc	V	45.67	45.47	45.26	45.03	44.79
Short Circuit Current_Isc	A	7.97	7.92	7.87	7.83	7.77

### TEMPERATURE RATING

Nominal operating cell temperature(NOCT)	C	45±2
Temperature Coefficient of Pmax	%/C	-0.4154
Temperature Coefficient of Isc	%/C	0.0359
Temperature Coefficient of Voc	%/C	-0.3108

### MAXIMUM RATING

Max. System Voltage	1500/1000Vdc
Operating Temperature	-40 ~ +85 C
Max. Series Fuse Rating	15A
Max. Reverse Current	15A
Max. Mechanical load	5400Pa

### CONSTRUCTION MATERIALS

Solar cells	72 mono - silicon cells, 156.75mm*156.75mm
Glass	3.2mm low-iron tempered glass
Encapsulant	ethylene vinyl acetate(EVA)
Frame	anodized aluminium alloy(Silver)
Junction Box	≥IP67 rated, 3/6 diodes
Cable	4mm <sup>2</sup> PV cable, 1200mm
Connector	MC4 compatible

### GENERAL DATA

Module Dimension(L×W×H)	1960×990×40mm
Weight	21.5kg

### PACKING

Modules per pallet	27
Pallets per 40' container	24
Packing box dimension(L×W×H)	2000×1140×1160mm

