



Made In China

LIGHTWAY SOLAR MODULE

LWG1M72 Series KEY FEATURES

19.67%
Max
Efficiency

390W
Max Peak
Power

10YEAR
Product
Warranty

25YEAR
Linear Power
Warranty



Positive Tolerance 0-5W

Provides our customers with maximum power output



Electric Current Classification

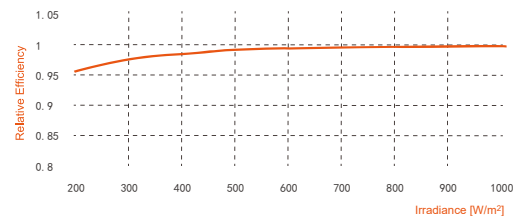
System output maximized by reducing mismatch losses up to 2% with modules sorted and package by amperage



System Certification

ISO 9001:2015, ISO 14001:2015,
ISO 45001:2018

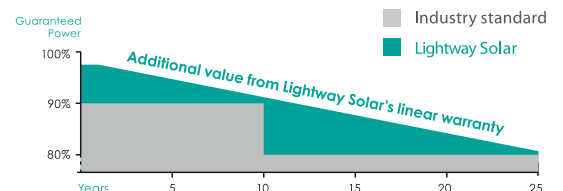
PERFORMANCE AT LOW IRRADIANCE



The typical relative change in module efficiency at an irradiance of 200W/m² in relation to 1000W/m² (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 > 83.1% power output
- 2.5% degradation rate the first year
- 0.60% yearly linear degradation



ELECTRICAL DATA @ STC

Values at standard test condition STC: air mass AM 1.5, irradiance 1000W/m², cells temperature 25 °C.

Module Type		LWG1M72-390	LWG1M72-385	LWG1M72-380	LWG1MH2-375	LWG1M72-370
Peak Power_Pmax	W	390	385	380	375	370
Power tolerance_ΔPmax		±3%				
Voltage at Pmax_Vmpp	V	40.22	39.91	39.59	39.27	38.95
Current at Pmax_Imp	A	9.70	9.65	9.60	9.55	9.50
Open Circuit Voltage_Voc	V	49.60	49.34	49.07	48.80	48.53
Open Circuit Voltage tolerance_Voc		±3%				
Short Circuit Current_Isc	A	10.16	10.11	10.06	10.01	9.96
Short Circuit Current tolerance_Isc		±3%				
Module Efficiency_η		19.67%	19.42%	19.16%	18.91%	18.66%

ELECTRICAL DATA @ NOCT

Nominal operating cell temperature NOCT: irradiance 800W/m², ambient temperature 20 °C, wind speed 1m/s.

Module Type		LWG1M72-390	LWG1M72-385	LWG1M72-380	LWG1M72-375	LWG1M72-370
Peak Power_Pmax	W	290.37	286.58	282.81	278.99	275.27
Voltage at Pmax_Vmpp	V	38.51	38.21	37.91	37.60	37.30
Current at Pmax_Imp	A	7.54	7.50	7.46	7.42	7.38
Open Circuit Voltage_Voc	V	46.57	46.33	46.08	45.82	45.57
Short Circuit Current_Isc	A	8.12	8.08	8.04	8.00	7.96

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	1500VDC
Operating Temperature	-40 ~ +85 °C
Max. Series Fuse Rating	20A
Max. Mechanical load	3600Pa (downward) / +1600Pa (upward). γm=1.5
Fire Resistance Rating	Class C

CONSTRUCTION MATERIALS

Solar cells	72 mono - silicon cells, 158.75mm*158.75mm
Glass	3.2mm low-iron tempered glass
Encapsulant	ethylene vinyl acetate(EVA)
Frame	anodized aluminium alloy
Cable	4mm ² PV cable, 1200mm (according to customer's requirement)
Installation method	clamp mounting, see installation manual for more

Connector

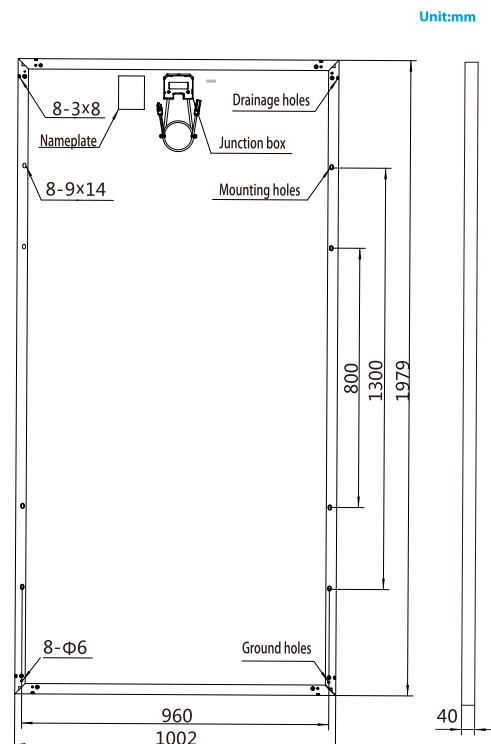
Manufacture	Type
Zhejiang renhe Photovoltaic Technology Co.,Ltd/ Dongguan zherun electronics Technology Co.,Ltd/ QC Solar corporation	05-8/Z4S/QC4.10-cd

GENERAL DATA

Module Dimension(L×W×H)	1979×1002×40mm
Weight	21.7kg

PACKING

Modules per pallet	27
Pallets per 40' container	22
Packing box dimension(L×W×H)	2020*1140*1140mm



Module Back View

