

# LIGHTWAY SOLAR MODULE

P 1640 × 990 Series  
KEY FEATURES



**16.32%**  
Max Efficiency

**265W**  
Max Peak Power

**10 YEAR**  
Product Warranty

**25 YEAR**  
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 wind and snow loads



**Passed Ammonia Gas and Salt Mist Corrosion Resistance Test**  
Tested and approved by TUV Rheinland according IEC 62716 Draft C and FprEN 61701 Ed.2

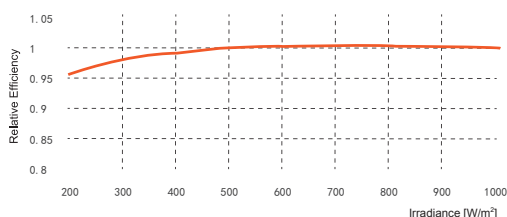


**ISO 9001:2008 - ISO 14001:2004 - OHSAS 18001:2007**

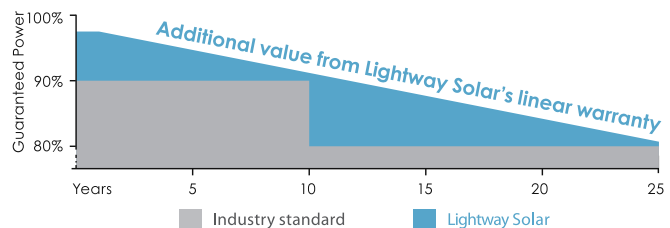


**PID-Free**  
Module without potential induced degradation even under high temperature and high relative humidity condition.

## 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
- 0.68% yearly linear degradation

## ELECTRICAL DATA @ STC

Module Type		LW265(29) P1640×990	LW260(29) P1640×990	LW255(29) P1640×990	LW250(29) P1640×990	LW245(29) P 1640×990	LW240(29) P1640×990
Peak Power_Pmax	W	265	260	255	250	245	240
Power tolerance_ΔPmax	W	0,+5					
Voltage at Pmax_Vmpp	V	30.4	30.25	30.10	29.95	29.80	29.65
Current at Pmax_Imp	A	8.73	8.61	8.48	8.36	8.24	8.11
Open Circuit Voltage_Voc	V	38.22	37.95	37.88	37.80	37.50	37.40
Short Circuit Current_Isc	A	9.10	9.06	8.90	8.78	8.69	8.56
Module Efficiency_η		16.32%	16.01%	15.71%	15.40%	15.09%	14.78%

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

## ELECTRICAL DATA @ NOCT

Module Type		LW265(29) P1640×990	LW260(29) P1640×990	LW255(29) P1640×990	LW250(29) P1640×990	LW245(29) P 1640×990	LW240(29) P1640×990
Peak Power_Pmax	W	196.56	191.64	188.39	184.59	180.21	176.38
Voltage at Pmax_Vmpp	V	28.94	28.46	28.42	28.28	27.94	27.77
Current at Pmax_Imp	A	6.79	6.73	6.63	6.53	6.45	6.35
Open Circuit Voltage_Voc	V	35.37	35.09	35.04	34.93	34.61	34.50
Short Circuit Current_Isc	A	7.38	7.34	7.21	7.12	7.04	6.94

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

## TEMPERATURE RATING

Nominal operating cell temperature(NOCT)	°C	45±2
Temperature Coefficient of Pmax	%/°C	-0.4204
Temperature Coefficient of Isc	%/°C	0.0654
Temperature Coefficient of Voc	%/°C	-0.3215

## MAXIMUM RATING

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

## CONSTRUCTION MATERIALS

Solar cells	60-multicrystalline silicon cells, 156mm*156mm
Glass	3.2mm low-iron tempered glass
Encapsulant	ethylene vinyl acetate(EVA)
Frame	anodized aluminium alloy(Silver)
Junction Box	≥1P65 rated, 3/6 diodes
Cable	4mm <sup>2</sup> PV cable, 900mm/1200mm
Connector	MC4 compatible

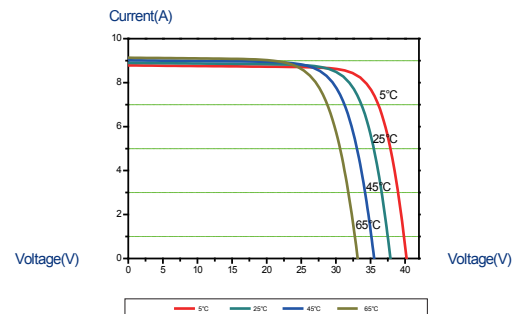
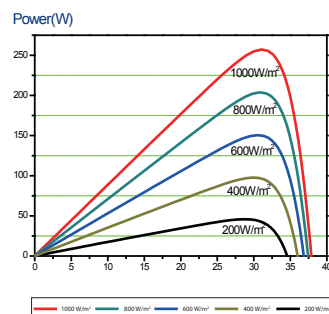
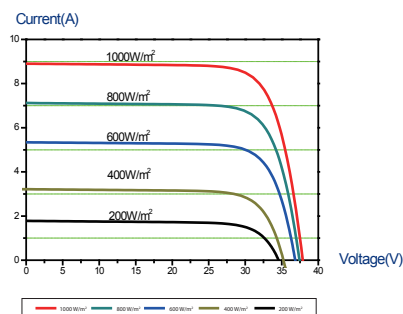
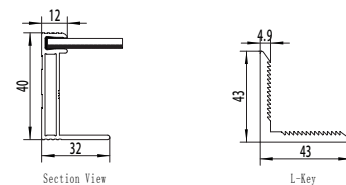
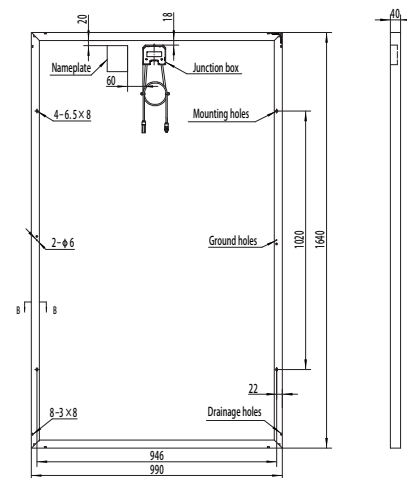
## GENERAL DATA

Module Dimension(L×W×H)	1640×990×40mm
Weight	18kg

## PACKING

Modules per pallet	26
Pallets per 40' container	28
Packing box dimension(L×W×H)	1700×1140×1020mm

Unit:mm



MKT-20150305