



# LIGHTWAY SOLAR MODULE

## LW6PH60 Series KEY FEATURES

**17.78%**  
Max Efficiency

**300W**  
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

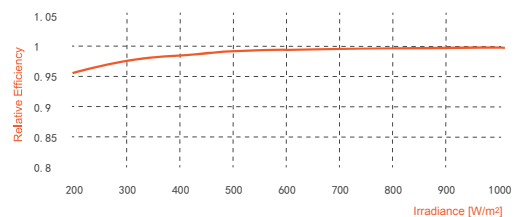
Module without potential induced degradation even under high temperature and high relative humidity condition



### System Certification

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

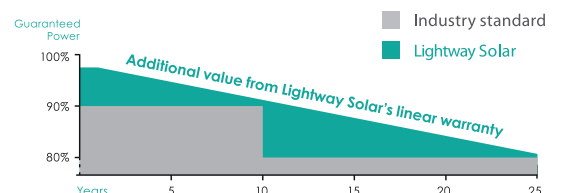
### PERFORMANCE AT LOW IRRADIANCE



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 > 80.7% power output
- 2.5% 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               |   | LW6PH60-300(W) | LW6PH60-295(W) | LW6PH60-290(W) | LW6PH60-285(W) | LW6PH60-280(W) |
|---------------------------|---|----------------|----------------|----------------|----------------|----------------|
| Peak Power_Pmax           | W | 300            | 295            | 290            | 285            | 280            |
| Power tolerance_ΔPmax     | W | 0,+5           |                |                |                |                |
| Voltage at Pmax_Vmpp      | V | 33.40          | 33.16          | 32.92          | 32.69          | 32.46          |
| Current at Pmax_Imp       | A | 8.98           | 8.90           | 8.81           | 8.72           | 8.63           |
| Open Circuit Voltage_Voc  | V | 38.08          | 37.86          | 37.63          | 37.40          | 37.16          |
| Short Circuit Current_Isc | A | 9.94           | 9.86           | 9.77           | 9.69           | 9.61           |
| Module Efficiency_η       |   | 17.78%         | 17.48%         | 17.19%         | 16.89%         | 16.59%         |

## ELECTRICAL DATA @ NOCT

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

| Module Type               |   | LW6PH60-300(W) | LW6PH60-295(W) | LW6PH60-290(W) | LW6PH60-285(W) | LW6PH60-280(W) |
|---------------------------|---|----------------|----------------|----------------|----------------|----------------|
| Peak Power_Pmax           | W | 222.36         | 218.55         | 214.84         | 211.17         | 207.59         |
| Voltage at Pmax_Vmpp      | V | 31.23          | 31.00          | 30.78          | 30.56          | 30.35          |
| Current at Pmax_Imp       | A | 7.12           | 7.05           | 6.98           | 6.91           | 6.84           |
| Open Circuit Voltage_Voc  | V | 35.61          | 35.40          | 35.19          | 34.97          | 34.75          |
| Short Circuit Current_Isc | A | 7.98           | 7.92           | 7.85           | 7.78           | 7.72           |

### TEMPERATURE RATING

|  |     |       |
|--|-----|-------|
| Nominal operating cell temperature(NOCT) | C   | 45±2  |
| Temperature Coefficient of Pmax          | %/C | -0.39 |
| Temperature Coefficient of Isc           | %/C | 0.055 |
| Temperature Coefficient of Voc           | %/C | -0.31 |

### MAXIMUM RATING

|                         |              |
|-------------------------|--------------|
| Max. System Voltage     | 1500/1000Vdc |
| Operating Temperature   | -40 ~ +85 C  |
| Max. Series Fuse Rating | 20A          |
| Max. Mechanical load    | 5400Pa       |

### CONSTRUCTION MATERIALS

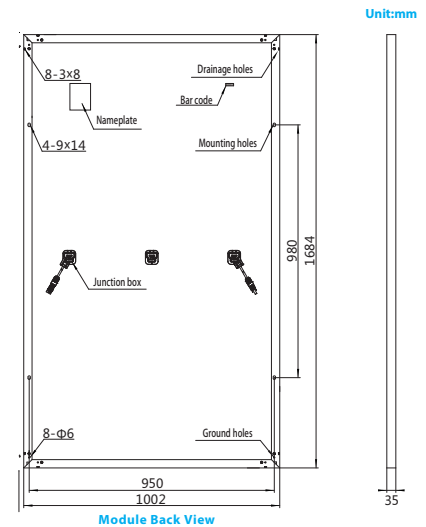
|              |   |
|--------------|---|
| Solar cells  | 120 poly-silicon cells, 158.75mm*79.375mm |
| Glass        | 3.2mm low-iron tempered glass             |
| Encapsulant  | ethylene vinyl acetate(EVA)               |
| Frame        | anodized aluminium alloy(Silver)          |
| Junction Box | ≥IP67 rated, 3 diodes                     |
| Cable        | 4mm <sup>2</sup> PV cable, 500mm          |
| Connector    | MC4 compatible                            |

### GENERAL DATA

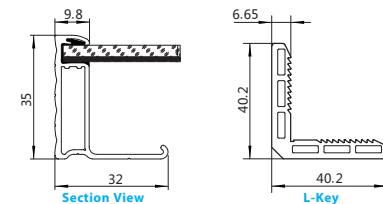
|                         |                |
|-------------------------|----------------|
| Module Dimension(L×W×H) | 1684×1002×35mm |
| Weight                  | 18.3kg         |

### PACKING

|                              |                  |
|------------------------------|------------------|
| Modules per pallet           | 31               |
| Pallets per 40' container    | 26               |
| Packing box dimension(L×W×H) | 1730×1140×1170mm |



Module Back View



Section View

L-Key

