



Poly



LW265-280-60P

LW280-60P LW275-60P

LW270-60P LW265-60P

>18.6%

Cell efficiency

World class poly efficiency
Positive tolerance offer
PID-free

280W

Highest power output

Tighter distribution and current sorting
reduces power loss in system operation

10 Year

workmanship warranty

Certified for salt & ammonia corrosion,
blowing sand and hail resistance
conditions

25 Year

Linear power output warranty

Good temperature coefficient enables higher
output in high temperature regions

Lightway, is a hi-tech corporation with its core business in R&D, manufacturing, and sale of high efficiency silicon based solar modules and system.

Lightway supply solar panel for to residential,commercial,utility etc projects all around the world.

Through strict selection of raw materials, stringent quality control and rigorous test in state of the art facilities . Lightway has always committed to higher efficiency, more stable and better cost performance products.



All information and data are subject to technical changes and test without notice. Lightway reserves the right of final interpretation.

www.lightway-tech.com

Electrical characteristics at Standard Test Conditions (STC)

| Model | LW280-60P | LW275-60P | LW270-60P | LW265-60P |
|---|-----------|-----------|-----------|-----------|
| Max Power - P _{mpp} (W) | 280 | 275 | 270 | 265 |
| Positive power tolerance | 0 ~ +3 | 0 ~ +3 | 0 ~ +3 | 0 ~ +3 |
| Open Circuit Voltage - Voc (V) | 38.85 | 38.46 | 38.30 | 38.14 |
| Short Circuit Current - I _{sc} (A) | 9.33 | 9.22 | 9.16 | 9.10 |
| Max Power Voltage-V _{mpp} (V) | 31.88 | 31.54 | 31.21 | 30.89 |
| Max Power Current - I _{mpp} (A) | 8.78 | 8.72 | 8.65 | 8.58 |
| Module Efficiency | 17.12 | 16.82 | 16.51 | 16.21 |

Electrical data relates to standard test conditions (STC) : irradiance 1000 W/m² ; AM 1.5 ; cell temperature 25°C measuring uncertainty of power is within ±3%. Certified in accordance with IEC61215, IEC61730-1/2

Electrical Characteristics at Normal Operating Cell Temperature (NOCT)

| Model | LW280-60P | LW275-60P | LW270-60P | LW265-60P |
|---|-----------|-----------|-----------|-----------|
| Max Power - P _{mpp} (W) | 204.13 | 200.20 | 196.56 | 192.92 |
| Max Power Voltage - V _{mpp} (V) | 28.66 | 28.41 | 28.23 | 28.07 |
| Max Power Current - I _{mpp} (A) | 7.12 | 7.05 | 6.96 | 6.87 |
| Open Circuit Voltage - Voc (V) | 35.68 | 35.37 | 35.19 | 35.03 |
| Short Circuit Current - I _{sc} (A) | 7.38 | 7.34 | 7.31 | 7.28 |

Electrical data relates to normal operating cell temperature (NOCT): irradiance 800 W/m² ; wind speed 1 m/s ; cell temperature 45 °C; ambient temperature 20 °C measuring uncertainty of power is within ±3%

Temperature Characteristics

| | |
|---------------------------------|-----------|
| Voltage Temperature Coefficient | -0.330%/K |
| Current Temperature Coefficient | +0.058%/K |
| Power Temperature Coefficient | -0.400%/K |

Mechanical Characteristics

Maximum Ratings

| | |
|-------------------------|------|
| Maximum system voltage | 1000 |
| Series fuse rating (A) | 15 |
| Reverse current overloa | 25 |

Mechanical Characteristics

| | |
|--------------------|---|
| Dimensions | 1650*991*35mm |
| Weight | 18kg |
| Frame | Anodized aluminum profile |
| Front glass | White toughened safety glass, 3.2 mm |
| Cell Encapsulation | EVA (Ethylene-Vinyl-Acetate) |
| Back Sheet | Composite film |
| Cells | 6 x 10 pieces poly solar cells series strings (156.75 mm x 156.75 mm) |
| Junction Box | Rated current ≥ 12A, IP ≥ 67, TUV |
| Cable | Length 900 mm, 1 x 4 mm ² |
| Connector | MC 4/ compatible with MC 4 |

Packaging

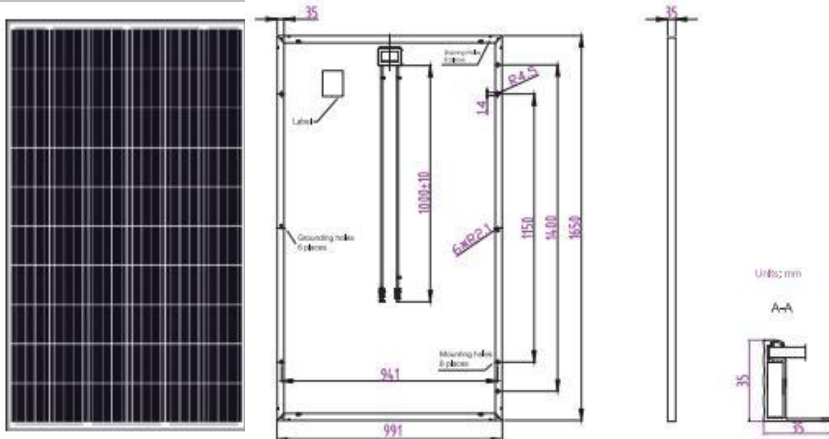
| | |
|-----------------|--------|
| Container 20' | 396pcs |
| Container 40' | 840pcs |
| Container 40'HC | 924pcs |

System Design

| | |
|-------------------|--|
| Temp. range | -40°C to + 85°C |
| Hail | max.diameter of 25mm with 23m/s impact speed |
| Max. capacity | Snow 5400 Pa, wind 2400 Pa |
| Application class | A |
| Safety class | II |

Dimensions

Note: Module layout below only valid for modules with 35mm thickness. All dimensions in mm.



IV-Curves

