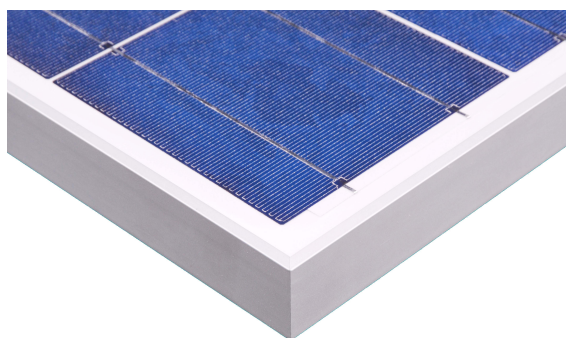


JS 120 SERIES

YL120P-17b 4/5

YL110P-17b 4/5

YL100P-17b 4/5



ABOUT GAIN SOLAR

Founded in 2007, Baoding Jiasheng Photovoltaic Technology Co., Ltd which markets its products under the brand "Gain Solar", is a wholly owned subsidiary of Yingli Solar, specializing in R&D, manufacturing and marketing of photovoltaic (PV) off-grid products and systems. What started as the in-house off-grid PV module production of Yingli Solar has developed over the years into a full-blown provider of off-grid PV modules, building-integrated PV modules, off-grid PV systems and solar application products. Founded on the Yingli Solar technology development, production, and distribution platform, Gain Solar has rapidly grown to set up branches in major provinces and cities of China and is now expanding its presence to the global level. Gain solar is dedicated to provide high quality off-grid PV products and systems to customers and received a series of certificate, including ISO9001, TUV, UL, CE, CQC and RoHS.

PERFORMANCE

High efficiency, polycrystalline solar cells with high transmission and textured glass delivering a module efficiency of up to 15.0%, minimizing installation costs and maximizing the kWh output of your system per unit area.

QUALITY AND RELIABILITY

- Industry leading in-house manufacturing of polysilicon, ingots, wafers, cells and modules ensures tight control of our material and production quality.
- Robust, corrosion resistant aluminum frame independently tested to withstand wind loads of 2.4 kPa and snow loads of 2.4 kPa ensuring a stable mechanical life for your modules.
- Module packaging optimized to protect product during transportation and minimize on-site waste.
- This type of module is commonly use for the small off-grid system.

JS 120 SERIES

ELECTRICAL PERFORMANCE

Electrical parameters at Standard Test Conditions (STC)

| Module name | | | JS 120 | JS 110 | JS 100 |
|-------------------------|------------------|---|----------------|----------------|----------------|
| Module type | | | YL120P-17b 4/5 | YL110P-17b 4/5 | YL100P-17b 4/5 |
| Power output | P_{max} | W | 120 | 110 | 100 |
| Power output tolerances | ΔP_{max} | % | +/- 5 | | |
| Module efficiency | η_m | % | 15.50 | 14.20 | 12.90 |
| Voltage at P_{max} | V_{mpp} | V | 18.50 | 17.80 | 17.10 |
| Current at P_{max} | I_{mpp} | A | 6.50 | 6.17 | 5.86 |
| Open-circuit voltage | V_{oc} | V | 22.90 | 22.10 | 21.50 |
| Short-circuit current | I_{sc} | A | 6.89 | 6.55 | 6.17 |

STC: 1000W/m² irradiance, 25°C cell temperature, AM1.5g spectrum according to EN 60904-3.
Average relative efficiency reduction of 5% at 200W/m² according to EN 60904-1.

Electrical parameters at Nominal Operating Cell Temperature (NOCT)

| Power output | P_{max} | W | 97.20 | 89.10 | 81.00 |
|-----------------------|-----------|---|-------|-------|-------|
| Voltage at P_{max} | V_{mpp} | V | 17.00 | 16.40 | 16.00 |
| Current at P_{max} | I_{mpp} | A | 5.21 | 4.95 | 4.64 |
| Open-circuit voltage | V_{oc} | V | 20.80 | 20.10 | 19.50 |
| Short-circuit current | I_{sc} | A | 5.51 | 5.24 | 4.93 |

NOCT: open-circuit module operation temperature at 800W/m² irradiance, 20°C ambient temperature, 1m/s wind speed.

THERMAL CHARACTERISTICS

| Nominal operating cell temperature | NOCT | °C | 46 +/- 2 |
|--------------------------------------|----------------|------|----------|
| Temperature coefficient of P_{max} | γ | %/°C | -0.45 |
| Temperature coefficient of V_{oc} | β_{Voc} | %/°C | -0.37 |
| Temperature coefficient of I_{sc} | α_{Isc} | %/°C | 0.06 |

OPERATING CONDITIONS

| | |
|---|---|
| Max. system voltage | 600V _{DC} |
| Max. series fuse rating | 10A |
| Limiting reverse current | Don't apply external voltages larger than Voc of the module |
| Operating temperature range | -40 to 85°C |
| Max. static load, front (e.g., snow and wind) | 2400Pa |
| Max. static load, back (e.g., wind) | 2400Pa |
| Max. hailstone impact (diameter / velocity) | 25mm / 23m/s |

CONSTRUCTION MATERIALS

| | |
|--|---|
| Front cover (material / thickness) | low-iron tempered glass / 3.2mm |
| Cell (quantity / material / dimensions) | 36 / multicrystalline silicon / 124.8mm x 156mm |
| Encapsulant (material) | ethylene vinyl acetate (EVA) |
| Frame (material / color / anodization color) | anodized aluminum alloy / silver / clear |

- Due to continuous innovation, research and product improvement, the specifications in this product information sheet are subject to change without prior notice. The specifications may deviate slightly and are not guaranteed.
- The data do not refer to a single module and they are not part of the offer, they only serve for comparison to different module types.

Baoding Jiasheng Photovoltaic Technology Co., Ltd
Add: No. 333 North Lekai Avenue 071051, Baoding, China
Email: jsgd@yinglisolar.com
Web: www.gainsolar.cn
Service hotline: +86 312 863 1510/892 2683
Fax: +86 312 892 2202

GAINSOLAR.CN

© Baoding Jiasheng Photovoltaic Technology Co., Ltd | JS120P-17b_45_EU_EN_201307_v01

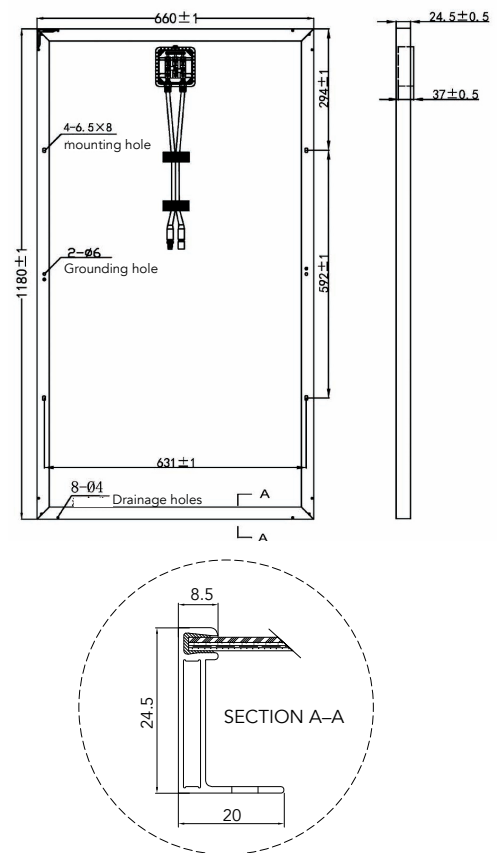
GENERAL CHARACTERISTICS

| | |
|------------------------|-----------------------|
| Dimensions (L / W / H) | 1180mm / 660mm / 25mm |
| Weight | 8.68kg |

PACKAGING SPECIFICATIONS

| | |
|--------------------------------------|------------------------|
| Number of modules per box | 6 |
| Packaging box dimensions (L / W / H) | 1210mm / 690mm / 210mm |

Unit: mm



Warning: Read the Installation and User manual in its entirety before handling, installing, and operating Yingli Solar modules.

Our Partners:



Power Your Life