

# YGE 60 CELL SERIES 2

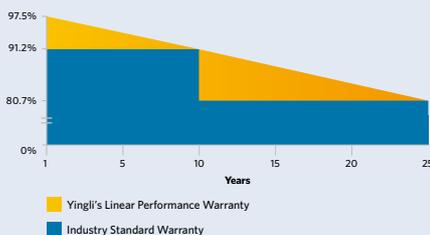


**18.5%**  
CELL EFFICIENCY

**10 YEAR**  
PRODUCT WARRANTY

**0-5W**  
POWER TOLERANCE

## 25 Years Linear Warranty



# PROVEN PERFORMANCE AND VERSATILITY

Independently tested for proven product quality and long-term reliability. Millions of PV systems installed worldwide demonstrate Yingli's industry leadership.



### Durability

Durable PV modules, independently tested for harsh environmental conditions such as exposure to salt mist, ammonia and known PID risk factors.



### Advanced Glass

Our high-transmission glass features a unique anti-reflective coating that directs more light on the solar cells, resulting in a higher energy yield.



### Top Selling Module Size

First choice for millions of banks and investors, this size is well-suited for almost all PV applications.



### PID Resistant

Tested in accordance to the standard IEC 62804, our PV modules have demonstrated resistance against PID (Potential Induced Degradation), which translates to security for your investment.

### Yingli Green Energy

Yingli Green Energy Holding Company Limited (NYSE: YGE), known as "Yingli Solar," is one of the world's leading solar panel manufacturers with the mission to provide affordable green energy for all. Deploying more than 17GW solar panels worldwide, Yingli Solar makes solar power possible for communities everywhere by using our global manufacturing and logistics expertise to address unique local challenges.

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## ELECTRICAL PERFORMANCE

### Electrical parameters at Standard Test Conditions (STC)

| Module type                 | YLxxxP-29b (xxx=P <sub>max</sub> ) |   |         |      |      |      |      |      |
|-----------------------------|------------------------------------|---|---------|------|------|------|------|------|
| Power output                | P <sub>max</sub>                   | W | 275     | 270  | 265  | 260  | 255  | 250  |
| Power output tolerances     | ΔP <sub>max</sub>                  | W | 0 / + 5 |      |      |      |      |      |
| Module efficiency           | η <sub>m</sub>                     | % | 16.8    | 16.5 | 16.2 | 15.9 | 15.6 | 15.3 |
| Voltage at P <sub>max</sub> | V <sub>mpp</sub>                   | V | 31.0    | 30.7 | 30.5 | 30.3 | 30.0 | 29.8 |
| Current at P <sub>max</sub> | I <sub>mpp</sub>                   | A | 8.90    | 8.80 | 8.70 | 8.59 | 8.49 | 8.39 |
| Open-circuit voltage        | V <sub>oc</sub>                    | V | 37.9    | 37.9 | 37.8 | 37.7 | 37.7 | 37.6 |
| Short-circuit current       | I <sub>sc</sub>                    | A | 9.35    | 9.27 | 9.18 | 9.09 | 9.01 | 8.92 |

STC: 1000W/m<sup>2</sup> irradiance, 25°C module temperature, AM1.5g spectrum according to EN 60904-3.  
Average relative efficiency reduction of 3.3% at 200W/m<sup>2</sup> according to EN 60904-1.

### Electrical parameters at Nominal Operating Cell Temperature (NOCT)

|                             |                  |   |       |       |       |       |       |       |
|-----------------------------|------------------|---|-------|-------|-------|-------|-------|-------|
| Power output                | P <sub>max</sub> | W | 200.6 | 196.9 | 193.3 | 189.7 | 186.0 | 182.4 |
| Voltage at P <sub>max</sub> | V <sub>mpp</sub> | V | 28.2  | 28.0  | 27.8  | 27.6  | 27.4  | 27.2  |
| Current at P <sub>max</sub> | I <sub>mpp</sub> | A | 7.12  | 7.04  | 6.96  | 6.87  | 6.79  | 6.71  |
| Open-circuit voltage        | V <sub>oc</sub>  | V | 35.0  | 35.0  | 34.9  | 34.8  | 34.8  | 34.7  |
| Short-circuit current       | I <sub>sc</sub>  | A | 7.56  | 7.49  | 7.42  | 7.35  | 7.28  | 7.21  |

NOCT: open-circuit module operation temperature at 800W/m<sup>2</sup> irradiance, 20°C ambient temperature, 1m/s wind speed.

## THERMAL CHARACTERISTICS

|   |                  |      |          |
|---|------------------|------|----------|
| Nominal operating cell temperature          | NOCT             | °C   | 46 +/- 2 |
| Temperature coefficient of P <sub>max</sub> | γ                | %/°C | -0.42    |
| Temperature coefficient of V <sub>oc</sub>  | β <sub>Voc</sub> | %/°C | -0.32    |
| Temperature coefficient of I <sub>sc</sub>  | α <sub>Isc</sub> | %/°C | 0.05     |

## OPERATING CONDITIONS

|   |                     |
|---|---------------------|
| Max. system voltage                         | 1000V <sub>DC</sub> |
| Max. series fuse rating                     | 15A                 |
| Limiting reverse current                    | 15A                 |
| Operating temperature range                 | -40°C to 85°C       |
| Max. static load, front (e.g., snow)        | 5400Pa              |
| 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 / number of busbars) | 60 / multicrystalline silicon / 156.75mm x 156.75mm (+/-0.25) / 4 or 5                           |
| Frame (material)  | anodized aluminum alloy  |
| Junction box (protection degree)                            | ≥ IP67   |
| Cable (length / cross-sectional area)                       | 1000mm / 4mm <sup>2</sup>  |
| Plug connector (type / protection degree)                   | MC4 / IP68 or YT08-1S / IP67 or Amphenol H4 / IP68 or Forsol SIKE4 / IP68 or Renhe RH05-6 / IP67 |

- 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.

## QUALIFICATIONS & CERTIFICATES

IEC 61215, IEC 61730, CE, MCS, ISO 9001:2008, ISO 14001:2004, BS OHSAS 18001:2007, PV Cycle, SA 8000



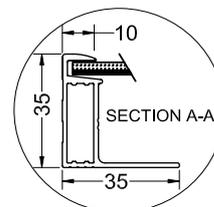
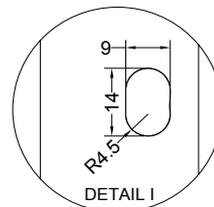
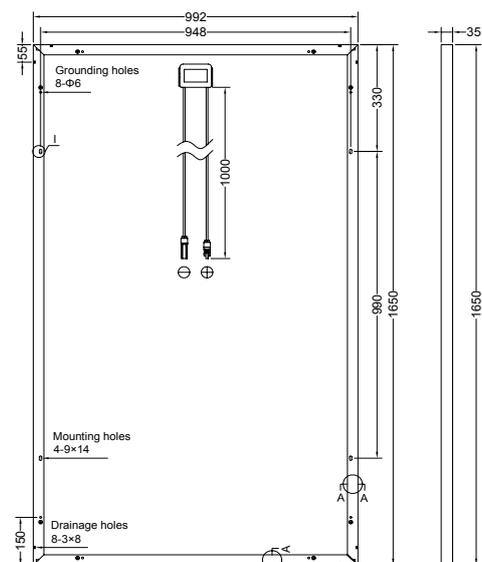
## GENERAL CHARACTERISTICS

|                        |                       |
|------------------------|-----------------------|
| Dimensions (L / W / H) | 1650mm / 992mm / 35mm |
| Weight                 | 18.5kg                |

## PACKAGING SPECIFICATIONS

|                                      |                          |
|--------------------------------------|--------------------------|
| Number of modules per pallet         | 30                       |
| Number of pallets per 40' container  | 28                       |
| Packaging box dimensions (L / W / H) | 1700mm / 1135mm / 1165mm |
| Box weight                           | 588kg                    |

Unit: mm



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

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