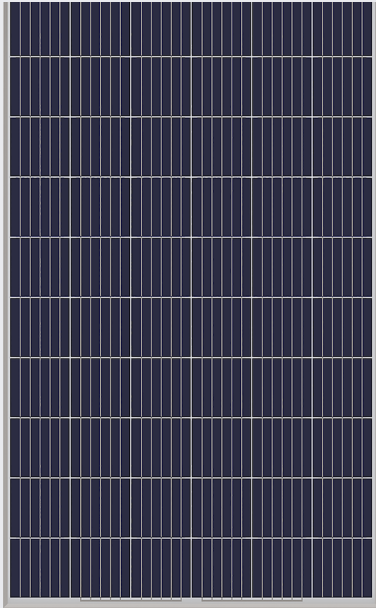


# YGE 60 CELL SERIES 2

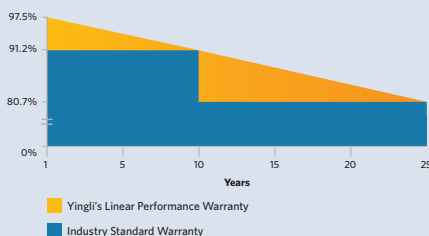


**19.6%**  
CELL EFFICIENCY

**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 Yingli modules work well in harsh conditions. Specific modules that are independently certified to exposure to salt mist, ammonia or PID risk factors are available on request.



### 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

Our modules work well in muggy high voltage conditions as samples are routinely tested at Yingli's laboratories for PID resistance. Specific modules that are independently certified for PID risk factors are available on request.

### Yingli Green Energy

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

# YGE 60 CELL SERIES 2

## 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	290	285	280	275	265
Power output tolerances	ΔP <sub>max</sub>	W	0 / + 5				
Module efficiency	η <sub>m</sub>	%	17.7	17.4	17.1	16.8	16.2
Voltage at P <sub>max</sub>	V <sub>mpp</sub>	V	31.8	31.6	31.4	31.0	30.5
Current at P <sub>max</sub>	I <sub>mp</sub>	A	9.12	9.02	8.92	8.90	8.70
Open-circuit voltage	V <sub>oc</sub>	V	38.5	38.4	38.2	37.9	37.8
Short-circuit current	I <sub>sc</sub>	A	9.65	9.55	9.45	9.35	9.18

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	211.5	207.9	204.2	200.6	196.9	193.3
Voltage at P <sub>max</sub>	V <sub>mpp</sub>	V	29.0	28.8	28.6	28.2	28.0	27.8
Current at P <sub>max</sub>	I <sub>mp</sub>	A	7.30	7.22	7.14	7.12	7.04	6.96
Open-circuit voltage	V <sub>oc</sub>	V	35.6	35.5	35.3	35.0	35.0	34.9
Short-circuit current	I <sub>sc</sub>	A	7.80	7.72	7.64	7.56	7.49	7.42

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)	PV-KBT4/6I, PV-KST4/6I / 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, SA 8000

Certificates are held by Yingli Energy (China) Co., Ltd., which is a wholly owned subsidiary of Yingli Green Energy Holding Co., Ltd.



Proudly made in China

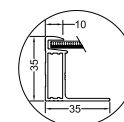
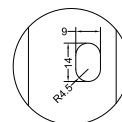
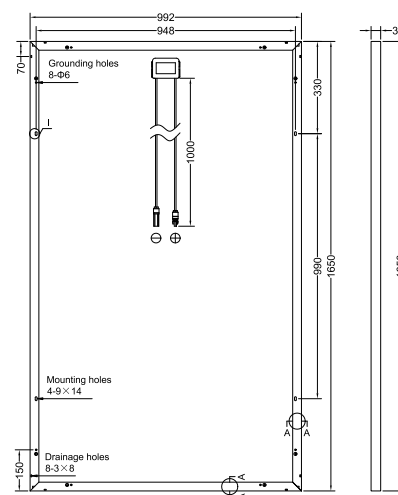
## GENERAL CHARACTERISTICS

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.

Yingli Partners:

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**YINGLISOLAR.COM**

