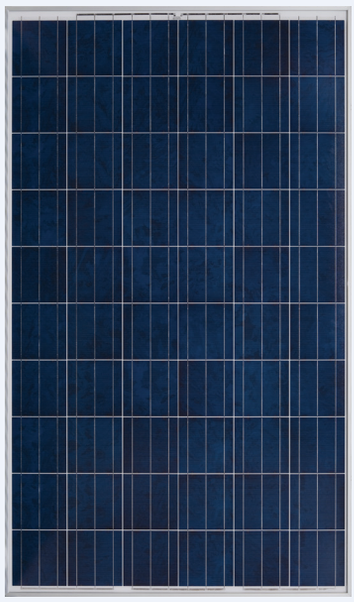
YINGLI SOLAR

YGE 60 CELL
SERIES 2

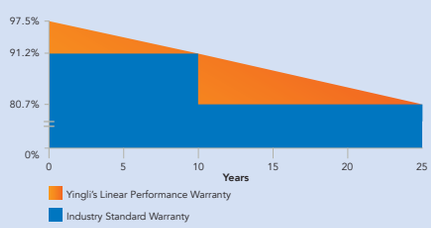


17.7%
CELL EFFICIENCY

10 YEAR
PRODUCT WARRANTY

0 - 5 W
POWER TOLERANCE

25 Years Linear Warranty



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YINGLI SOLAR
Power Your Life

PROVEN QUALITY
IN A NEW DIMENSION

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 draft 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 the world's largest photovoltaic module manufacturer in terms of production capacity. We are a leading solar energy company dedicated to proven product reliability and sustainable performance.

YGE 60 CELL SERIES 2

ELECTRICAL PERFORMANCE

Electrical parameters at Standard Test Conditions (STC)

Module type			YLxxxP-29b (xxx=P_{max})				
Power output	P_{max}	W	260	255	250	245	240
Power output tolerances	ΔP_{max}	W	0 / + 5				
Module efficiency	η_m	%	16.0	15.7	15.4	15.1	14.8
Voltage at P_{max}	V_{mpp}	V	30.3	30.0	29.8	29.6	29.3
Current at P_{max}	I_{mpp}	A	8.59	8.49	8.39	8.28	8.18
Open-circuit voltage	V_{oc}	V	37.7	37.7	37.6	37.5	37.5
Short-circuit current	I_{sc}	A	9.09	9.01	8.92	8.83	8.75

STC: 1000W/m² irradiance, 25°C cell temperature, AM1.5g spectrum according to EN 60904-3.
Average relative efficiency reduction of 3.3% at 200W/m² according to EN 60904-1.

Electrical parameters at Nominal Operating Cell Temperature (NOCT)

Power output	P_{max}	W	189.7	186.0	182.4	178.7	175.1
Voltage at P_{max}	V_{mpp}	V	27.6	27.4	27.2	27.0	26.8
Current at P_{max}	I_{mpp}	A	6.87	6.79	6.71	6.62	6.54
Open-circuit voltage	V_{oc}	V	34.8	34.8	34.7	34.6	34.6
Short-circuit current	I_{sc}	A	7.35	7.28	7.21	7.14	7.07

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	-0.42
Temperature coefficient of V_{oc}	β_{Voc}	%/°C	-0.32
Temperature coefficient of I_{sc}	α_{Isc}	%/°C	0.05
Temperature coefficient of V_{mpp}	β_{Vmpp}	%/°C	-0.42

OPERATING CONDITIONS

Max. system voltage	1000V_{DC}
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 / 156mm x 156mm / 2 or 3
Frame (material / color / anodization color / edge sealing)	anodized aluminum alloy / silver / clear / silicone or tape
Junction box (protection degree)	≥ IP65
Cable (length / cross-sectional area)	1000mm / 4mm²
Plug connector (type / protection degree)	MC4 / IP67 or YT08-1 / IP67 or Amphenol H4 / IP68

- 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

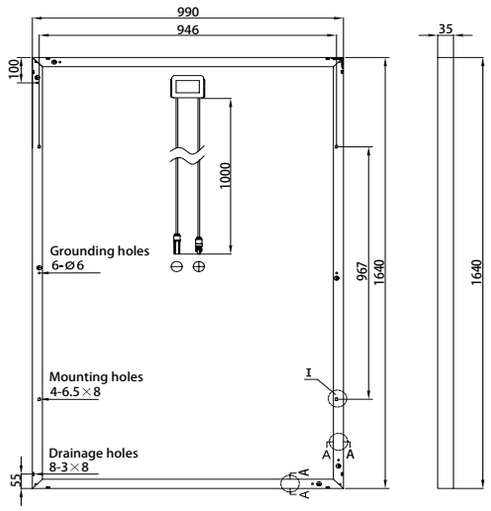
GENERAL CHARACTERISTICS

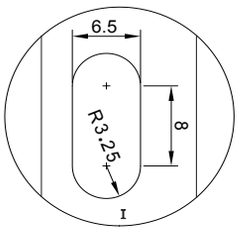
Dimensions (L / W / H)	1640mm / 990mm / 35mm
Weight	18.5kg

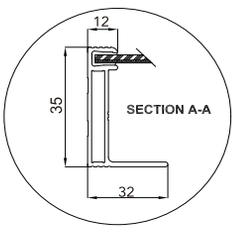
PACKAGING SPECIFICATIONS

Number of modules per pallet	29
Number of pallets per 40' container	28
Packaging box dimensions (L / W / H)	1700mm / 1135mm / 1165mm
Box weight	568kg

Unit: mm







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

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