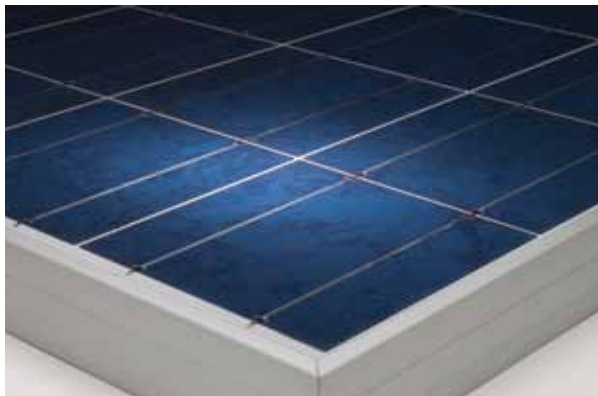


YGE185 SERIES

YL185P-23b
YL180P-23b
YL175P-23b



COMPANY

Yingli Green Energy (NYSE:YGE) is one of the world's largest fully vertically integrated PV manufacturers. With over 2 GW of modules installed globally, we are a leading solar energy company built upon proven product reliability and sustainable performance. Founded in 1998, Yingli Green Energy serves customers through our U.S. subsidiary, Yingli Americas, co-headquartered in New York and San Francisco. We are the first renewable energy company and the first Chinese company to sponsor the FIFA World Cup™.

PERFORMANCE

- Industry leading in-house manufacturing of polysilicon, ingots, wafers, cells and modules ensures tight control of our material and production quality.
- High performance, multicrystalline solar cells deliver a module series efficiency of up to 14.3%, reducing installation costs and maximizing the kWh output per unit area.
- Power tolerance of +/-3% minimizes PV system mismatch losses.

QUALITY & RELIABILITY

- Robust, corrosion resistant aluminum frame independently tested to withstand wind and snow loads of up to 50 psf and 113 psf, respectively, ensuring a stable mechanical life.
- Manufacturing facility certified to ISO9001 Quality Management System standards.
- Module packaging optimized to protect product during transportation and minimize on-site waste.

WARRANTIES

- Extensive 5-year limited product warranty and a 25-year limited power warranty.
- Limited power warranty* = 90% of the minimum rated power output for 10 years, 80% of the minimum rated power output for 25 years.

* In compliance with our warranty terms and conditions.

QUALIFICATIONS & CERTIFICATES

UL 1703 and ULC 1703, UL Fire Safety Class C, CEC, FSEC
ISO 9001:2008, ISO 14001:2004, BS OSHAS 18001:2007, SA8000



YGE185 SERIES

ELECTRICAL PERFORMANCE

Electrical parameters at Standard Test Conditions (STC)					
Module name			YGE 185	YGE 180	YGE 175
Module type			YL185P-23b	YL180P-23b	YL175P-23b
Power output	P_{max}	W	185	180	175
Power output tolerances	ΔP_{max}	%		+/- 3	
Module efficiency	η_m	%	14.3	13.9	13.5
Voltage at P_{max}	V_{mpp}	V	23.5	23.0	23.0
Current at P_{max}	I_{mpp}	A	7.87	7.83	7.61
Open-circuit voltage	V_{oc}	V	29.5	29.5	29.0
Short-circuit current	I_{sc}	A	8.45	8.30	8.20

STC: 1000W/m² irradiance, 25°C module temperature, AM1.5g spectrum according to EN 60904-3
Ave. efficiency reduction of 2% at 200W/m² according to EN 60904-1

Electrical parameters at Nominal Operating Cell Temperature (NOCT)					
Power output	P_{max}	W	133.8	130.4	126.9
Voltage at P_{max}	V_{mpp}	V	21.1	20.7	20.7
Current at P_{max}	I_{mpp}	A	6.34	6.30	6.13
Open-circuit voltage	V_{oc}	V	27.0	27.0	26.5
Short-circuit current	I_{sc}	A	6.85	6.72	6.64

NOCT: open-circuit module operation temperature at 800W/m² irradiance, 20°C ambient temperature, 1 m/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	15A
Limiting reverse current	Do not apply external voltages larger than V_{oc} of the module
Operating temperature range	-40 to 194°F (-40 to 90°C)
Max. static load, front (e.g., snow and wind)	113 psf (5400 Pa)
Max. static load, back (e.g., wind)	50 psf (2400 Pa)
Hailstone impact	1 in (25 mm) at 51 mph (23 m/s)

CONSTRUCTION MATERIALS

Front cover (material/type/thickness)	Low-iron glass / tempered / 3.2 mm
Cell (quantity/material/type/dimensions/area)	48 / polysilicon / multicrystalline / 156 mm x 156 mm / 243.3 cm ²
Encapsulant (material)	Ethylene vinyl acetate (EVA)
Frame (material/color/anodization color)	Anodized aluminum alloy / silver / clear
Junction box (protection degree)	IP65
Cable (type/length/cross-sectional area)	PV Wire / 35.43 in (900 mm) / 12 AWG
Plug connector (manufacturer/type/protection degree)	Amphenol / H4 / IP68

- The specifications in this datasheet are not guaranteed and are subject to change without prior notice.
- This datasheet complies with EN 50380:2003 requirements.

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YINGLISOLAR.COM | NYSE:YGE

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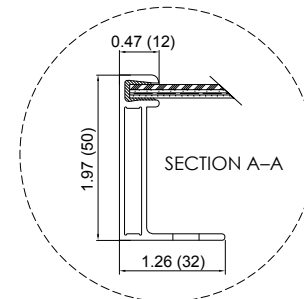
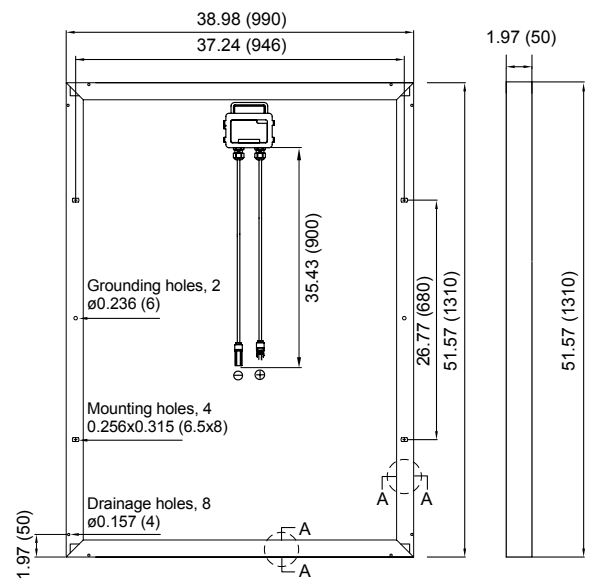
GENERAL CHARACTERISTICS

Dimensions (L/W/H)	51.57 in (1310 mm) / 38.98 in (990 mm) / 1.97 in (50 mm)
Weight	34.8 lbs (15.8 kg)

PACKAGING SPECIFICATIONS

Number of modules per pallet	20
Number of pallets per 53' container	36
Packaging box dimensions (L/W/H)	54 in (1380 mm) / 45 in (1150 mm) / 46 in (1170 mm)
Box weight	805 lbs (365 kg)

Units: inch (mm)



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

Our Partners

