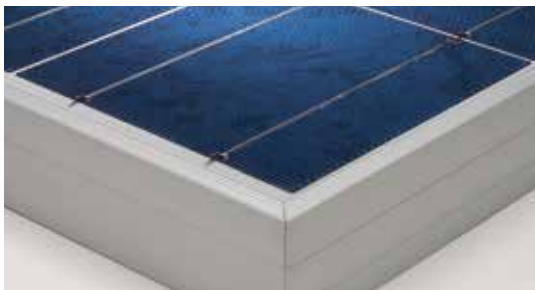


YGE 72 CELL SERIES

YL305P-35b
YL300P-35b
YL295P-35b
YL290P-35b
YL285P-35b



U.S. Soccer Powered by Yingli Solar



COMPANY

Yingli Green Energy (NYSE:YGE) is one of the world's largest fully vertically integrated PV manufacturers. With over 4.5 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 to sponsor the U.S. National Soccer teams and 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 15.6%, reducing installation costs and maximizing the kWh output per unit area.
- Tight positive power tolerance of -0W to +5W ensures modules are delivered at or above rated power, improving system performance through the reduction of module mismatch loss.

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 mechanical stability.
- Manufacturing facility certified to ISO9001 Quality Management System standards.
- Module packaging optimized to protect product during transportation and minimize on-site waste.

WARRANTIES

- Leading limited power warranty* ensures 91.2% of rated power for 10 years, and 80.7% of rated power for 25 years.
- 10-year limited product warranty.

*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 OHSAS 18001:2007, SA8000



YGE 72 CELL SERIES

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ELECTRICAL PERFORMANCE

Electrical parameters at Standard Test Conditions (STC)

Module type			YL305P-35b	YL300P-35b	YL295P-35b	YL290P-35b	YL285P-35b
Power output	P_{max}	W	305	300	295	290	285
Power output tolerances	ΔP_{max}	W	-0/+5				
Module efficiency	η_m	%	15.6	15.4	15.1	14.9	14.6
Voltage at P_{max}	V_{mpp}	V	37.0	36.7	36.3	35.8	35.5
Current at P_{max}	I_{mpp}	A	8.25	8.17	8.12	8.10	8.02
Open-circuit voltage	V_{oc}	V	46.3	46.3	45.4	45.3	45.0
Short-circuit current	I_{sc}	A	8.87	8.77	8.63	8.62	8.50

STC: 1000W/m² irradiance, 25°C cell temperature, AM 1.5g spectrum according to EN 60904-3
Average relative efficiency reduction of 5.0% at 200W/m² according to EN 60904-1

Electrical parameters at Nominal Operating Cell Temperature (NOCT)

Power output	P_{max}	W	220.9	217.3	214.2	210.6	207.7
Voltage at P_{max}	V_{mpp}	V	33.6	33.4	32.7	32.3	32.0
Current at P_{max}	I_{mpp}	A	6.57	6.51	6.55	6.53	6.46
Open-circuit voltage	V_{oc}	V	42.7	42.7	41.4	41.3	41.1
Short-circuit current	I_{sc}	A	7.19	7.10	6.99	6.98	6.89

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	-0.33
Temperature coefficient of I_{sc}	α_{Isc}	%/°C	0.06
Temperature coefficient of V_{mpp}	β_{Vmpp}	%/°C	-0.45

OPERATING CONDITIONS

Max. system voltage	600Vdc
Max. series fuse rating	15A
Limiting reverse current	15A
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 / 4.0 mm Glass may have anti-reflective coating
Cell (quantity/material/type/dimensions/area/# of busbars)	72 / polysilicon / multicrystalline / 156 mm x 156 mm / 243.3 cm ² / 2 or 3
Encapsulant (material)	Ethylene vinyl acetate (EVA)
Frame (material/color)	Anodized aluminum alloy / silver
Junction box (protection degree)	≥IP65
Cable (type/length/gauge/outside diameter)	PV Wire / 47.24 in (1200 mm) / 12 AWG / 0.244 in (6.2 mm)
Plug connector (manufacturer/type/protection degree)	Amphenol / H4 / IP68 or Multi Contact / MC4 / IP67

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

Yingli Green Energy Americas, Inc.
info@yingliamericas.com
Tel: +1 (888) 686-8820

YINGLISOLAR.COM/US | NYSE:YGE

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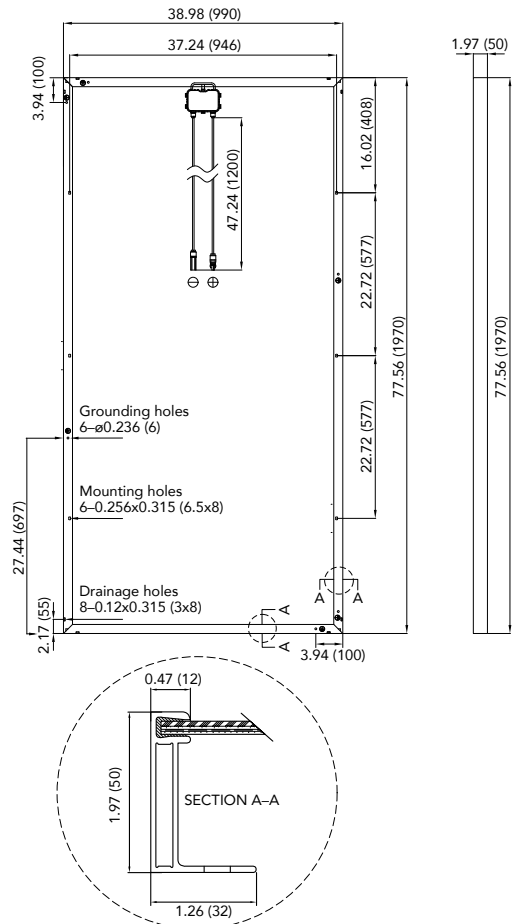
GENERAL CHARACTERISTICS

Dimensions (L/W/H)	77.56 in (1970 mm) / 38.98 in (990 mm) / 1.97 in (50 mm)
Weight	59.1 lbs (26.8 kg)

PACKAGING SPECIFICATIONS

Number of modules per pallet	21
Number of pallets per 53' container	28
Packaging box dimensions (L/W/H)	78 in (1990 mm) / 45 in (1130 mm) / 46 in (1170 mm)
Box weight	1351 lbs (613 kg)

Units: inch (mm)



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



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