

YGE-Z SERIES

YL240P-29b

YL235P-29b

YL230P-29b

YL225P-29b



INTRODUCING the Yingli Solar Z Series. Ideal for residential and commercial applications where cost savings, installation time, and aesthetics matter most.

Best Choice for INSTALLERS

- ▶ Lower equipment cost with Zep Compatible™ frame.
- ▶ Reduce labor costs on roof by 25% or more.
- ▶ Leverage a built-in grounding system – if it's mounted, it's grounded.
- ▶ Ultra-low parts count – eliminates rails, screws, mounting clips, and grounding hardware.
- ▶ Design and permit projects easily with access to layout calculator and stamped drawings.

Best Choice for HOMEOWNERS

- ▶ Cut total installed costs with savings across equipment and labor.
- ▶ Take advantage of the strongest module system yet, requiring minimal roof penetrations.
- ▶ Invest in an attractive solar array that includes a black frame, low mounting profile, and aesthetic array skirt.
- ▶ Increase energy output with flexible mounting options (portrait or landscape).
- ▶ Trust in the reliability and theft-resistance of the Zep Compatible™ system.



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.

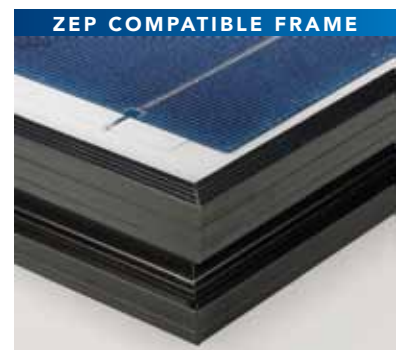
QUALIFICATIONS & CERTIFICATES

UL 1703 and ULC 1703 (pending), CEC, FSEC, ISO 9001:2008, ISO 14001:2004, BS OSHAS 18001:2007, SA8000



EXTRA! The Z Series is optimized for use with Enphase Microinverters. Enphase's Zep Compatible™ Microinverters* are designed to connect directly into the Z Series

module groove, eliminating the need for tools, fasteners or a grounding wire. With one easy step, you can simplify design, lower install time, and begin monitoring system output. *Available in Q4 2011



YGE-Z SERIES

ELECTRICAL PERFORMANCE

Electrical parameters at Standard Test Conditions (STC)¹

Module name			YGE-Z 240	YGE-Z 235	YGE-Z 230	YGE-Z 225
Module type			YL240P-29b	YL235P-29b	YL230P-29b	YL225P-29b
Power output	P _{max}	W	240	235	230	225
Power output tolerances ²	ΔP _{max}	%	+/- 3			
Module efficiency	η _m	%	14.7	14.4	14.1	13.8
Voltage at P _{max}	V _{mpp}	V	29.5	29.5	29.5	29.5
Current at P _{max}	I _{mpp}	A	8.14	7.97	7.80	7.63
Open-circuit voltage	V _{oc}	V	37.5	37.0	37.0	36.5
Short-circuit current	I _{sc}	A	8.65	8.54	8.40	8.28

¹ STC: 1000W/m² irradiance, 25°C module temperature, AM1.5g spectrum according to EN 60904-3

² Premium power output tolerance options are available upon request

Electrical parameters at Nominal Operating Cell Temperature (NOCT)

Power output	P _{max}	W	174.3	170.7	167.0	163.4
Voltage at P _{max}	V _{mpp}	V	26.6	26.6	26.6	26.6
Current at P _{max}	I _{mpp}	A	6.56	6.42	6.29	6.15
Open-circuit voltage	V _{oc}	V	34.2	33.8	33.8	33.3
Short-circuit current	I _{sc}	A	7.01	6.92	6.81	6.71

NOCT: open-circuit operating cell 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 _{oc}
Max. series fuse rating	15A
Operating temperature range	-40 to 194°F (-40 to 90°C)
Max. static load, front (e.g., snow and wind)	50 psf (2400 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)	60 / polysilicon / multicrystalline / 156 mm x 156 mm / 243.3 cm ²
Encapsulant (material)	Ethylene vinyl acetate (EVA)
Frame (material/color)	Anodized aluminum alloy / black
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

• The specifications in this datasheet are not guaranteed and are subject to change without prior notice.

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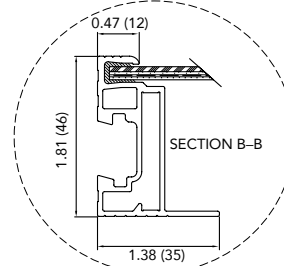
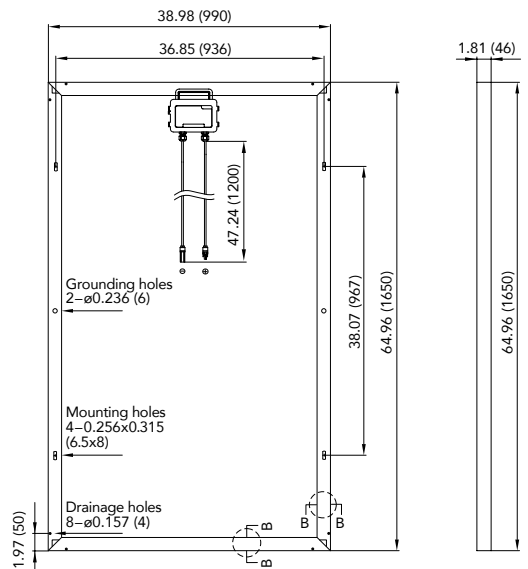
GENERAL CHARACTERISTICS

Dimensions (L/W/H)	64.96 in (1650 mm) / 38.98 in (990 mm) / 1.81 in (46 mm)
Weight	45.4 lbs (20.6 kg)

PACKAGING SPECIFICATIONS

Number of modules per pallet	22
Number of pallets per 53' container	36
Packaging box dimensions (L/W/H)	67 in (1710 mm) / 45 in (1150 mm) / 47 in (1190 mm)
Box weight	1081 lbs (490 kg)

Units: inch (mm)



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

For product and purchase inquiries contact:

ecodirect

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