

# YGE-Z 60 CELL SERIES

YL260P-29b  
YL255P-29b  
YL250P-29b  
YL245P-29b  
YL240P-29b



U.S. Soccer Powered by Yingli Solar

**YINGLI SOLAR Z SERIES** Ideal for residential and commercial applications where cost savings, installation time, and aesthetics matter most.

## Best Choice for INSTALLERS

- ▶ Lower balance-of-system costs with Zep Compatible™ frame.
- ▶ Reduce on-roof labor costs by more than 25%.
- ▶ Leverage the built-in grounding system – if it's mounted, it's grounded.
- ▶ Decrease your parts count – eliminate screws, rails, mounting clips, and grounding hardware.

## Best Choice for HOMEOWNERS

- ▶ Minimize roof penetrations while maintaining the system's structural integrity.
- ▶ Invest in an attractive solar array that includes a black frame, low mounting profile, and aesthetic array skirt.
- ▶ Increase energy output with flexible module layouts (portrait or landscape).
- ▶ Trust in the reliability and theft-resistance of the Zep Compatible™ system.



## AC SOLUTION OPTION

The YGE-Z Series is now available as



an *Enphase Energized™* AC Solution. This solution delivers optimum performance and integrated intelligence. The Enphase M215-Z Zep Compatible Microinverter is designed to connect directly into the Z Series module groove, eliminating the need for tools or fasteners – all with one easy step.



Intelligent real-time monitoring at the system and module level with Enlighten.

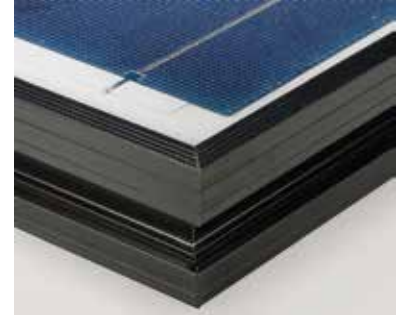
## WARRANTIES

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.

## ZEP COMPATIBLE FRAME

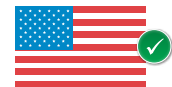


## QUALIFICATIONS & CERTIFICATES

UL 1703 and ULC 1703, CEC, FSEC, ISO 9001:2008, ISO 14001:2004, BS OHSAS 18001:2007, SA8000



## U.S. TARIFF-COMPLIANT



If you buy from Yingli Americas, Yingli Americas acts as the importer and complies with all applicable tariffs. Customers can buy from Yingli Americas with no worry that they will be liable for any import tariffs.

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## ELECTRICAL PERFORMANCE

Electrical parameters at Standard Test Conditions (STC)

Module type			YL260P-29b	YL255P-29b	YL250P-29b	YL245P-29b	YL240P-29b
Power output	$P_{max}$	W	260	255	250	245	240
Power output tolerances	$\Delta P_{max}$	%	-0 / +3				
Module efficiency	$\eta_m$	%	15.9	15.6	15.3	15.0	14.7
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/m<sup>2</sup> irradiance, 25°C cell 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	$P_{max}$	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/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 $P_{max}$	$\gamma$	%/°C	-0.42
Temperature coefficient of $V_{oc}$	$\beta_{Voc}$	%/°C	-0.32
Temperature coefficient of $I_{sc}$	$\alpha_{Isc}$	%/°C	0.05
Temperature coefficient of $V_{mpp}$	$\beta_{Vmpp}$	%/°C	-0.42

## OPERATING CONDITIONS

Max. system voltage	600Vdc or 1000Vdc
Max. series fuse rating	15A
Limiting reverse current	15A
Operating temperature range	-40 to 185°F (-40 to 85°C)
Max. static load	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
Encapsulant (material)	ethylene vinyl acetate (EVA)
Frame (material / color / edge sealing)	anodized aluminum alloy / black / silicone or tape
Junction box (ingress protection rating)	≥IP65
Cable (length / cross-sectional area)	1100mm / 4mm <sup>2</sup>
Connector (type / ingress protection rating)	MC4 or Amphenol H4 / ≥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.

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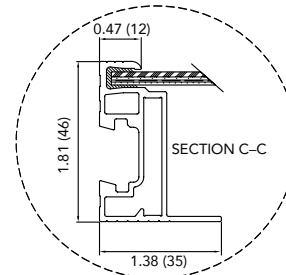
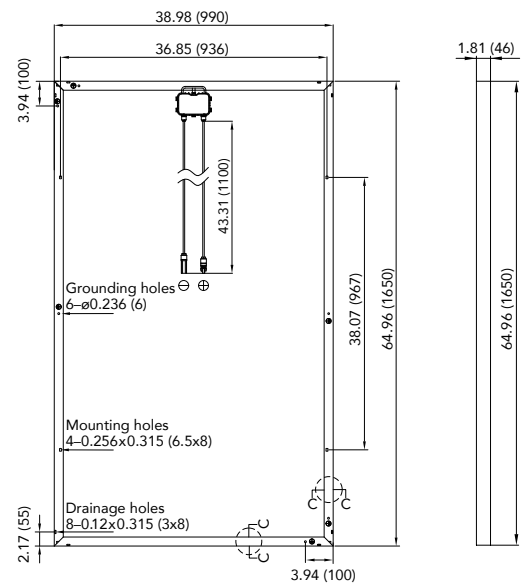
## GENERAL CHARACTERISTICS

Dimensions (L / W / H)	64.96in (1650mm) / 38.98in (990mm) / 1.81in (46mm)
Weight	45.2lbs (20.5kg)

## PACKAGING SPECIFICATIONS

Number of modules per pallet	22
Number of pallets per 40' container	28
Packaging box dimensions (L / W / H)	67in (1710mm) / 45in (1145mm) / 46in (1178mm)
Box weight	1067lbs (484kg)

Units: inch (mm)



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



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