

# YGE-U 72 CELL SERIES

YL320P-35b  
YL315P-35b  
YL310P-35b  
YL305P-35b  
YL300P-35b

16.5%

MAXIMUM EFFICIENCY

25 YEAR

LINEAR POWER WARRANTY

0 / +3%

POWER TOLERANCE

## PROVEN PERFORMANCE IN LARGE-SCALE APPLICATIONS

Fully compatible with the latest fixed tilt and tracking technologies, the large-format YGE-U 72 Cell Series is engineered to maximize performance in both utility projects and large commercial systems.



### Long-Term Durability

Independent tests validate Yingli modules' high resistance to adverse environmental factors such as salt mist, ammonia, and blowing sand.



### More Energy per Watt

From hot climates to low-light conditions, Yingli modules deliver superior energy yield in a wide range of temperatures and irradiances.



### Global Scale

As one of the world's largest solar module manufacturers, Yingli has deployed over 14 GW of solar modules worldwide and supplied nearly 100,000 projects in the Americas.



### Local Support

Yingli's dedicated local team provides comprehensive customer service through regional headquarters in New York and San Francisco.

### Warranty Information

Ten-year limited product warranty. Industry leading 25-year performance warranty adds value by guaranteeing power output on an annual basis, in compliance with our warranty terms and conditions.

### Performance Modeling

For those interested in obtaining module performance modeling files for system energy yield simulation, please contact Yingli at [simulation@yingliamericas.com](mailto:simulation@yingliamericas.com).

### Qualifications & Certificates

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

## ELECTRICAL PERFORMANCE

### Electrical parameters at Standard Test Conditions (STC)

Module type			YL320P-35b	YL315P-35b	YL310P-35b	YL305P-35b	YL300P-35b
Power output	$P_{max}$	W	320	315	310	305	300
Power output tolerances	$\Delta P_{max}$	%			0 / +3		
Module efficiency	$\eta_m$	%	16.5	16.2	16.0	15.7	15.5
Voltage at $P_{max}$	$V_{mpp}$	V	37.0	36.8	36.3	36.1	35.8
Current at $P_{max}$	$I_{mpp}$	A	8.64	8.56	8.53	8.45	8.37
Open-circuit voltage	$V_{oc}$	V	46.0	45.7	45.6	45.4	45.2
Short-circuit current	$I_{sc}$	A	9.18	9.12	8.99	8.93	8.86

STC: 1000W/m<sup>2</sup> irradiance, 25°C cell temperature, AM 1.5G spectrum according to EN 60904-3.

### Electrical parameters at Nominal Operating Cell Temperature (NOCT)

Power output	$P_{max}$	W	233.4	229.8	226.1	222.5	218.8
Voltage at $P_{max}$	$V_{mpp}$	V	33.8	33.6	33.1	32.9	32.7
Current at $P_{max}$	$I_{mpp}$	A	6.91	6.85	6.82	6.76	6.70
Open-circuit voltage	$V_{oc}$	V	42.5	42.2	42.1	41.9	41.7
Short-circuit current	$I_{sc}$	A	7.42	7.37	7.27	7.22	7.16

NOCT: open-circuit module operation temperature at 800W/m<sup>2</sup> irradiance, 20°C ambient temperature, 1m/s wind speed.

## THERMAL CHARACTERISTICS

Temperature coefficient of $P_{max}$	%/°C	-0.42
Temperature coefficient of $V_{oc}$	%/°C	-0.32
Temperature coefficient of $I_{sc}$	%/°C	0.05

## OPERATING CONDITIONS

Max. system voltage	1000V <sub>DC</sub>
Max. series fuse rating	15A
Limiting reverse current	15A
Operating temperature range	-40 to 185°F (-40 to 85°C)
Max. hailstone impact (diameter / velocity)	25mm / 23m/s

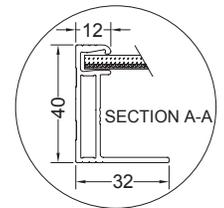
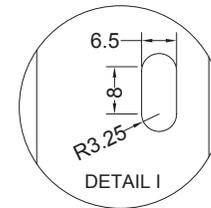
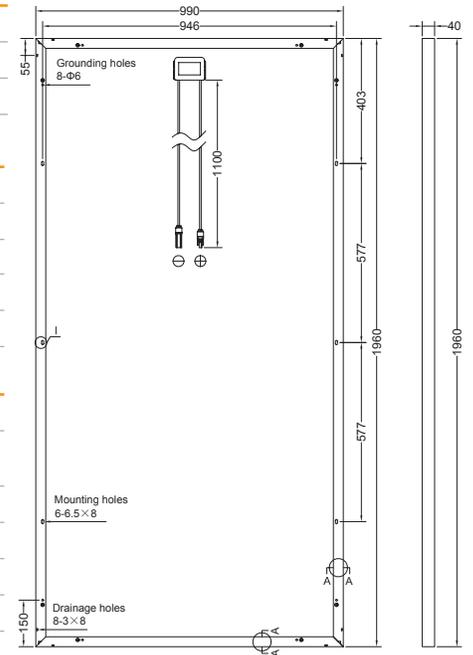
## CONSTRUCTION MATERIALS

Front cover (material / thickness)	low-iron tempered glass / 4.0mm
Cell (quantity / material / dimensions / number of busbars)	72 / multicrystalline silicon / 156mm x 156mm / 3 or 4
Encapsulant (material)	ethylene vinyl acetate (EVA)
Frame (material / color)	anodized aluminum / silver
Junction box (ingress protection rating)	≥ IP65
Cable (length / cross-sectional area)	1100mm / 4mm <sup>2</sup>
Connector (type / ingress protection rating)	MC4 / IP67 or Amphenol H4 / IP68

## GENERAL CHARACTERISTICS

Module dimensions (L / W / H)	77.17in (1960mm) / 38.98in (990mm) / 1.57in (40mm)
Module weight	56.2lbs (25.5kg)
Number of modules per pallet	26
Number of pallets per 40' container	24
Packaging box dimensions (L / W / H)	78in (1995mm) / 45in (1145mm) / 46in (1170mm)
Packaging box weight	1559lbs (707kg)
Fire classification type	Type I and Type 2

Units: inch (mm)



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