

YGE-U 72 CELL SERIES

YL315P-35b
YL310P-35b
YL305P-35b
YL300P-35b
YL295P-35b



PROVEN PERFORMANCE IN LARGE-SCALE APPLICATIONS

The YGE-U 72 Cell Series is designed to deliver superior energy yields in large-scale applications. Fully compatible with the latest fixed tilt and tracking systems, our large-format panel helps maximize PV power plant performance.

16.2%

MAXIMUM EFFICIENCY

25 YEAR

LINEAR POWER WARRANTY

0-3%

POWER TOLERANCE



Trusted Partner

As one of the world's largest solar PV manufacturers, Yingli has a proven track record of bankability with major financial institutions and energy companies. Yingli offers industry-leading performance guarantees to backstop project production requirements.



More Energy per Watt

Yingli panels deliver superior power output in a variety of temperature and irradiance conditions, and self-cleaning anti-reflective coated glass reduces soiling to help maximize power output. Performance is backed by our 25-year linear warranty.



Designed to Outlast

Tested to the industry's most rigorous durability standards, Yingli panels are PID-resistant in conformance with IEC 62804. To ensure reliable performance, Yingli uses quality components such as DuPont™ Tedlar® PVF film-based backsheets.



Best-In-Class Technical Support

Yingli's highly trained, locally-based engineering team evaluates project-specific technical requests and works closely with balance-of-systems vendors to reduce system costs. In the Americas, we offer value-added after-sales services such as in-house testing, commissioning, and field-testing support.

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 panel performance modeling files for system energy yield simulation, please contact Yingli at simulation@yingliamericas.com.

Qualifications & Certificates

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



(PHOTOVOLTAIC MODULE)



Management
System
ISO 9001:2008
ISO 14001:2004
OHSAS 18001:2007

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YGE-U72 CELL SERIES

Powered by **YINGLI**

ELECTRICAL PERFORMANCE

Electrical parameters at Standard Test Conditions (STC)

Panel type			YL315P-35b	YL310P-35b	YL305P-35b	YL300P-35b	YL295P-35b
Power output	P_{max}	W	315	310	305	300	295
Power output tolerances	ΔP_{max}	%	0 / +3				
Panel efficiency	η_m	%	16.2	16.0	15.7	15.5	15.2
Voltage at P_{max}	V_{mpp}	V	36.8	36.3	36.1	35.8	35.6
Current at P_{max}	I_{mpp}	A	8.56	8.53	8.45	8.37	8.29
Open-circuit voltage	V_{oc}	V	45.7	45.6	45.4	45.2	45
Short-circuit current	I_{sc}	A	9.12	8.99	8.93	8.86	8.79

STC: 1000W/m² 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	229.8	226.1	222.5	218.8	215.2
Voltage at P_{max}	V_{mpp}	V	33.6	33.1	32.9	32.7	32.4
Current at P_{max}	I_{mpp}	A	6.85	6.82	6.76	6.70	6.63
Open-circuit voltage	V_{oc}	V	42.2	42.1	41.9	41.7	41.6
Short-circuit current	I_{sc}	A	7.37	7.27	7.22	7.16	7.11

NOCT: open-circuit panel operation temperature at 800W/m² irradiance, 20°C ambient temperature, 1m/s wind speed.

OPERATING CONDITIONS

Max. system voltage	1000V _{oc}
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

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
Temperature coefficient of V_{mpp}	%/°C	-0.42

CONSTRUCTION MATERIALS

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

GENERAL CHARACTERISTICS

Panel dimensions (L / W / H)	77.17in (1960mm) / 38.98in (990mm) / 1.57in (40mm)
Panel weight	56.2lbs (25.5kg)
Number of panels 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



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

Yingli Green Energy Americas, Inc.

info@yingliamericas.com

Tel: +1 (888) 686-8820

YINGLISOLAR.COM | NYSE:YGE

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Units: inch (mm)

