

YGE-U 72 CELL SERIES

YL310P-35b
YL305P-35b
YL300P-35b
YL295P-35b
YL290P-35b



PROVEN PERFORMANCE IN LARGE-SCALE APPLICATIONS

The YGE-U 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 module helps maximize PV power plant performance.

16.0%

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 modules 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 modules are PID-resistant in conformance with IEC 62804 (draft). 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. With Yingli's PV Testing Lab in California as a resource, 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 module performance modeling files for system energy yield simulation, please contact Yingli at simulation@yingliamericas.com.

Qualifications & Certificates

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



LISTED
(PHOTOVOLTAIC MODULE)
44DD



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

www.tuv.com
ID: 9105048461

YINGLISOLAR.COM

YGE-U72 CELL SERIES

Powered by **YINGLI**

ELECTRICAL PERFORMANCE

Electrical parameters at Standard Test Conditions (STC)

Module type			YL310P-35b	YL305P-35b	YL300P-35b	YL295P-35b	YL290P-35b
Power output	P_{max}	W	310	305	300	295	290
Power output tolerances	ΔP_{max}	%	-0 / +3				
Module efficiency	η_m	%	16.0	15.7	15.5	15.2	14.9
Voltage at P_{max}	V_{mpp}	V	36.3	36.1	35.8	35.6	35.3
Current at P_{max}	I_{mpp}	A	8.53	8.45	8.37	8.29	8.22
Open-circuit voltage	V_{oc}	V	45.6	45.4	45.2	45.0	44.8
Short-circuit current	I_{sc}	A	8.99	8.93	8.86	8.79	8.73

STC: 1000W/m² irradiance, 25°C cell temperature, AM 1.5G spectrum according to EN 60904-3

Maximum power output P_{max} at multiple rating conditions of temperature and irradiance

		Temperature	Irradiance	YL310P-35b	YL305P-35b	YL300P-35b	YL295P-35b	YL290P-35b
		°C	W/m ²	W	W	W	W	W
High Temperature Condition	HTC	75	1000	242.9	239.0	235.1	231.2	227.3
Nominal Operating Cell Temperature	NOCT	46	800	227.2	223.5	219.8	216.2	212.5
Low Temperature Condition	LTC	15	500	161.8	159.2	156.6	154.0	151.4
Low Irradiance Condition	LIC	25	200	60.0	59.0	58.1	57.1	56.1

OPERATING CONDITIONS

Max. system voltage	1000V _{dc}
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	-0.43
Temperature coefficient of V_{oc}	%/°C	-0.32
Temperature coefficient of I_{sc}	%/°C	0.04
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

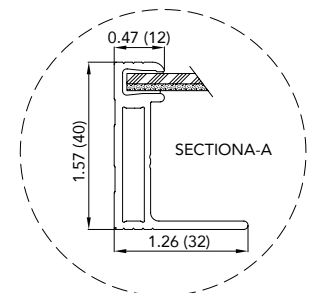
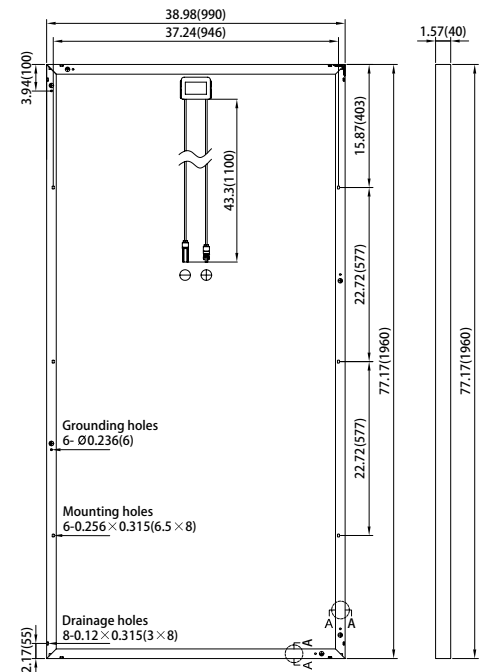
GENERAL CHARACTERISTICS

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)



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

Units: inch (mm)



Yingli Green Energy Americas, Inc.

info@yingliamericas.com

Tel: +1 (888) 686-8820

YINGLISOLAR.COM | NYSE:YGE

© Yingli Green Energy Holding Co. Ltd. | YGE-U72CellSeries2015_EN_20152_V01

DuPont™ and Tedlar® are registered trademarks of E.I. du Pont de Nemours and Company or its affiliates. The specifications in this datasheet are not guaranteed and are subject to change without prior notice.

