

YGE-U 72 CELL SERIES

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



U.S. Soccer Powered by Yingli Solar

YINGLI SOLAR U SERIES Designed specifically for utility-scale projects and certified by UL for system voltages up to 1000V.



DURABLE

▶ Certified to withstand wind loads of 2400Pa, snow loads of 5400Pa, ammonia, and salt mist to ensure performance in adverse conditions.

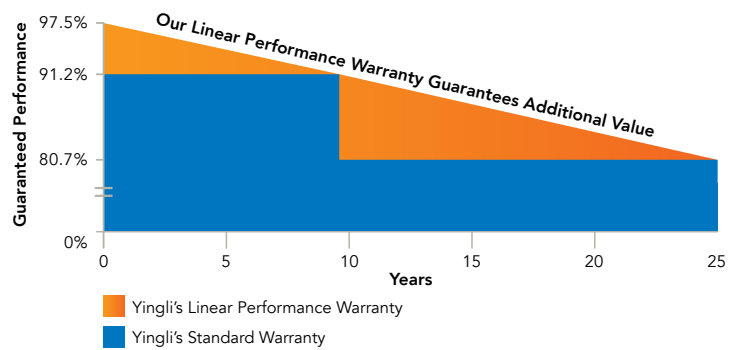
ECONOMIC

▶ Larger string sizes lower installation costs by decreasing the required number of wire runs and combiner boxes.

SAFE

▶ UL certification conveys confidence in product safety to authorities having jurisdiction throughout the U.S. and Canada.

WARRANTIES



10-year Limited Product Warranty also applies.*

* In compliance with our warranty terms and conditions.

TRUSTED PARTNER



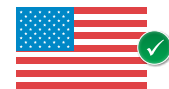
The YGE-U 72 Cell Series is fully compatible with single-axis solar tracking systems manufactured by Array Technologies, which can boost system performance by up to 25% depending on site location.

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.

YGE-U72 CELL SERIES

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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	%	15.9	15.6	15.4	15.1	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
Average relative efficiency reduction of 3.3% at 200W/m² according to EN 60904-1

Electrical parameters at Nominal Operating Cell Temperature (NOCT)

Power output	P_{max}	W	226.1	222.5	218.8	215.2	211.5
Voltage at P_{max}	V_{mpp}	V	33.1	32.9	32.7	32.4	32.2
Current at P_{max}	I_{mpp}	A	6.82	6.76	6.70	6.63	6.58
Open-circuit voltage	V_{oc}	V	42.1	41.9	41.7	41.6	41.4
Short-circuit current	I_{sc}	A	7.27	7.22	7.16	7.11	7.06

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

THERMAL CHARACTERISTICS

Nominal operating cell temperature	NOCT	°C	46 +/- 2
Temperature coefficient of P_{max}	γ	%/°C	-0.42
Temperature coefficient of V_{oc}	β_{Voc}	%/°C	-0.32
Temperature coefficient of I_{sc}	α_{Isc}	%/°C	0.05
Temperature coefficient of V_{mpp}	β_{Vmpp}	%/°C	-0.42

OPERATING CONDITIONS

Max. system voltage	1000Vdc
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
Encapsulant (material)	ethylene vinyl acetate (EVA)
Frame (material / color / edge sealing)	anodized aluminum alloy / silver / silicone or tape
Junction box (ingress protection rating)	≥IP65
Cable (length / cross-sectional area)	1200mm / 4mm ²
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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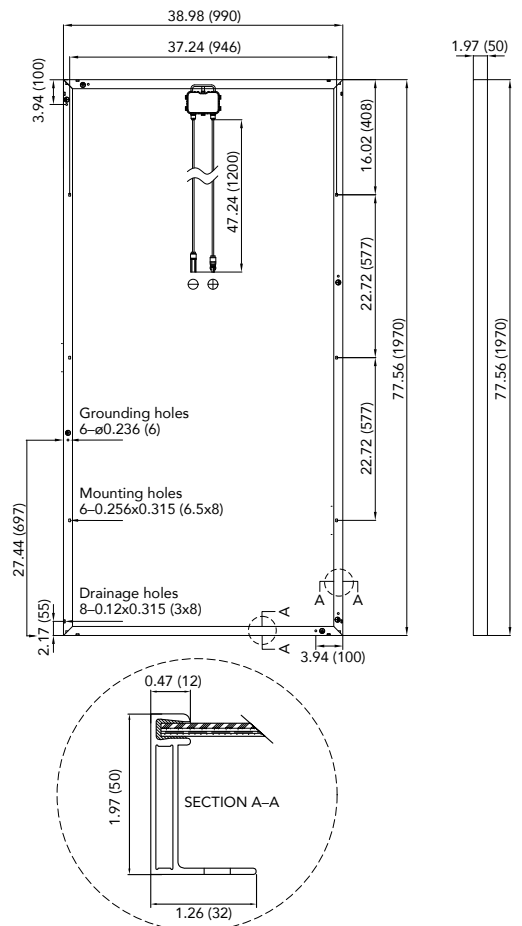
GENERAL CHARACTERISTICS

Dimensions (L / W / H)	77.56in (1970mm) / 38.98in (990mm) / 1.97in (50mm)
Weight	57.3lbs (26kg)

PACKAGING SPECIFICATIONS

Number of modules per pallet	21
Number of pallets per 40' container	24
Packaging box dimensions (L / W / H)	78in (2000mm) / 45in (1145mm) / 46in (1170mm)
Box weight	1307lbs (593kg)

Units: inch (mm)



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



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