

# **SOLAR COMPLETE PRODUCT BROCHURE**

This leaflet gives you an idea about the solar panels and techniques Envirochem Ltd. can offer to you with its cooperating partners.

More than 65 million solar panels (representing over 15 gigawatts) have been shipped to more than 90 countries, including Germany, Spain, Italy, Greece, France, South Korea, China, Japan, Brazil, Australia, South Africa, Mexico and the United States. Our dependable solar panels have been proven to perform in diverse climates and environments nearly everywhere under the sun.

As the world confronts unprecedented energy and environmental challenges, we remain committed to our mission: to provide affordable green energy for all.

## **Solar for Homes**



As a homeowner, solar panels could provide a secure, long-term investment that reduces both your carbon footprint and your electric bills. As the world's largest solar panel manufacturer, our partners are trusted by thousands of homeowners around the world.

## **Solar for Businesses**



Investing in a solar PV system has distinct financial benefits and visually demonstrates your commitment to reducing your carbon footprint. Our partners have helped to power businesses around the world, from manufacturing facilities in the United States to family farms in Germany.

### Power Plants



A utility-scale solar power plant is not just a long-term investment; it's a two-decade partnership. With over 15GW of solar panels delivered worldwide, we have worked with hundreds of developers, EPCs, and utility companies in dozens of countries to bring large-scale solar projects to life.

### Our Products

Our solar panel manufacturing process is defined by world-class technology and professional workmanship. We utilize the highest-quality materials, sourced through our global supply chains, to ensure that our solar panels will generate value for decades to come.

As one of the world's largest solar panel manufacturers, our partners have delivered more than 65 million solar panels for homes, businesses, and power plants around the world. The solar panel is the foundation of any successful solar project. Our solar panels have been proven to perform in diverse climates and environments, nearly everywhere under the sun.

We provide solar panels in a range of formats and efficiencies to meet the diverse needs of our global customers. Whether you are installing solar panels on a residential rooftop or in a sun-soaked desert, we have a quality solar module for your project.

What should you look for in a solar panel? Here's how we make solar panels that are designed, built, and proven to perform.

## SOLAR FOR HOMES

### TwinMAX 60 Cell Bifacial Series



#### Dimensions

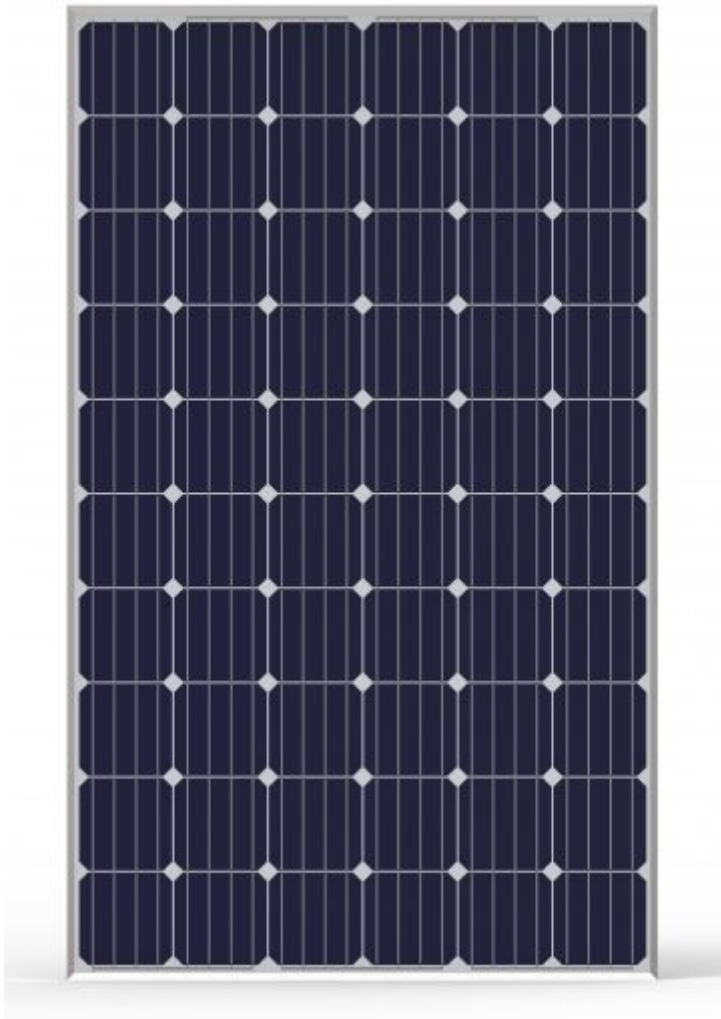
1658mm / 992 mm / 6 mm

#### Module Type

- YL290CG2530L-1, with peak power of 290 W
- YL285CG2530L-1, with peak power of 285 W
- YL280CG2530L-1, with peak power of 280 W
- YL275CG2530L-1, with peak power of 275 W
- YL270CG2530L-1, with peak power of 270 W

TwinMAX Bifacial modules generate power from the front as well as from the back side. Together with the cutting-edge PANDA n-type crystalline silicon solar cells, which wake up earlier than regular p-type and go to sleep later, the energy yield can be increased by 10-30%.

## YLM 60 Cell Series



### Dimensions

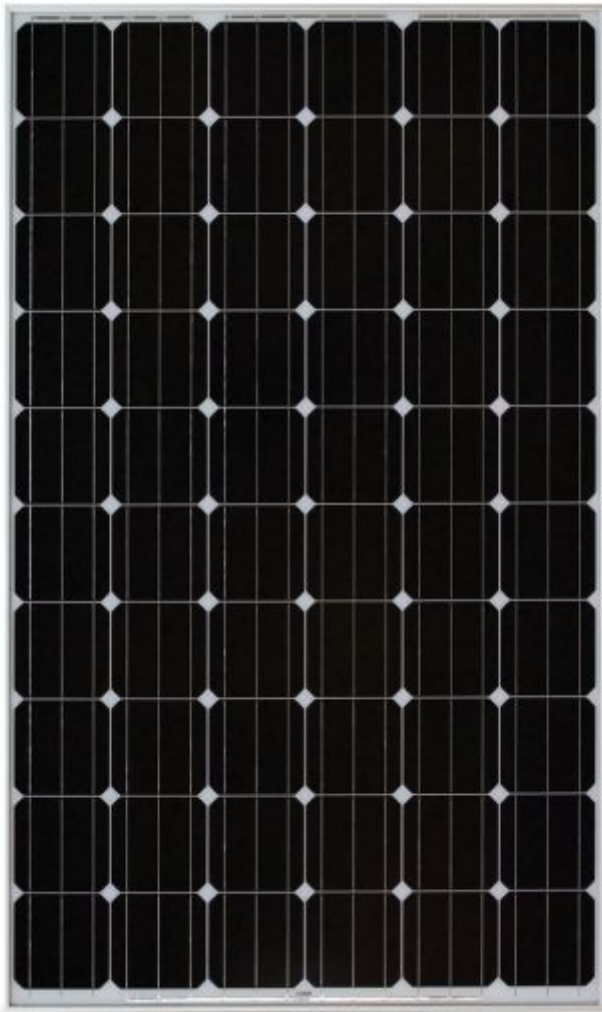
1640mm / 990mm / 40mm

### Module Type

- YL290D-30b, with peak power of 290 W
- YL285D-30b, with peak power of 285 W
- YL280D-30b, with peak power of 280 W
- YL275D-30b, with peak power of 275 W
- YL270D-30b, with peak power of 270 W

The standard-sized module of the series. With an efficiency of up to 17.9% the YLM 60 Cell is ideal for all types of applications where efficiency is essential, ranging from residential and commercial projects to large-scale power plants.

## PANDA 60 Cell Series



### Dimensions

1640 mm / 990 mm / 40 mm

### Module Type

- YL300C-30b, with peak power of 300 W
- YL295C-30b, with peak power of 295 W
- YL290C-30b, with peak power of 290 W
- YL285C-30b, with peak power of 285 W
- YL280C-30b, with peak power of 280 W
- YL275C-30b, with peak power of 275 W

With an efficiency of up to 20.1%, our PANDA Series has one of the highest module performance ratings in the world.

The standard-sized module of the series, the PANDA 60 Cell is ideal for all types of applications where efficiency is essential, ranging from residential and commercial projects to large-scale power plants.

## YGE 60 Cell Series



### Dimensions

1640 mm / 990 mm / 35 mm

### Module Type

- YL275P-29b, with peak power of 275 W
- YL270P-29b, with peak power of 270 W
- YL265P-29b, with peak power of 265 W
- YL260P-29b, with peak power of 260 W
- YL255P-29b, with peak power of 255 W
- YL250P-29b, with peak power of 250 W

Our signature product, the YGE 60 Cell, is the most versatile module. While compact enough to fit on residential and commercial roofs, it is still economical enough to meet

the needs of larger, utility-scale projects. This series is UL and IEC certified which are both universally recognized and respected throughout the solar industry.

## **SOLAR FOR BUSINESS**

### TwinMAX 60 Cell Bifacial Series



#### Dimensions

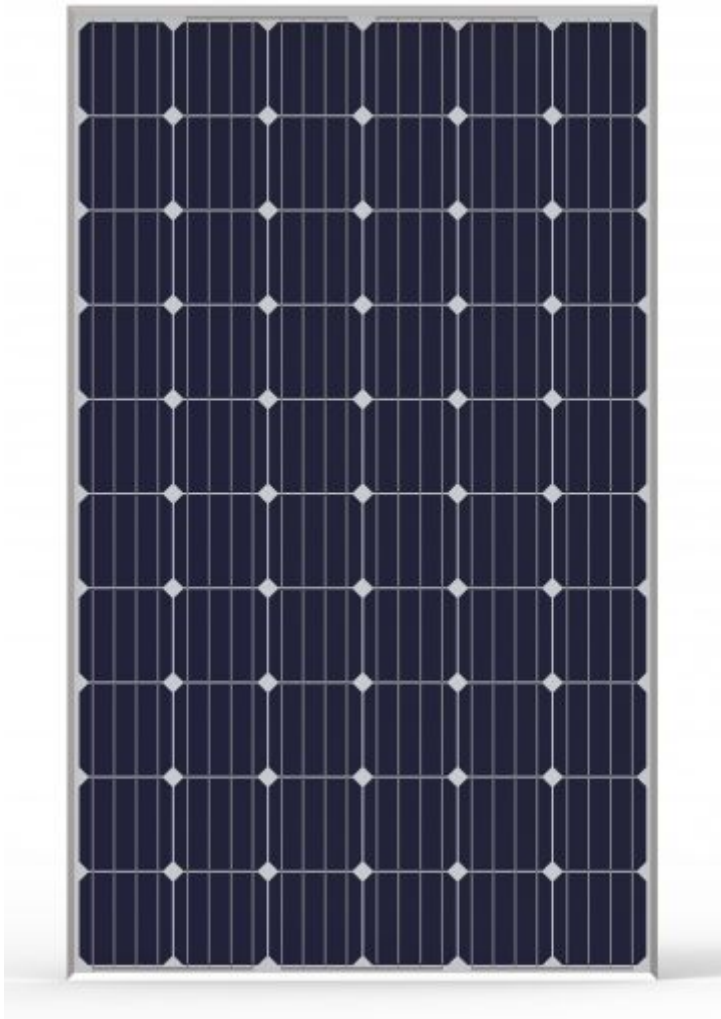
1658mm / 992 mm / 6 mm

#### Module Type

- YL290CG2530L-1, with peak power of 290 W
- YL285CG2530L-1, with peak power of 285 W
- YL280CG2530L-1, with peak power of 280 W
- YL275CG2530L-1, with peak power of 275 W
- YL270CG2530L-1, with peak power of 270 W

TwinMAX Bifacial modules generate power from the front as well as from the back side. Together with the cutting-edge PANDA n-type crystalline silicon solar cells, which wake up earlier than regular p-type and go to sleep later, the energy yield can be increased by 10-30%.

## YLM 60 Cell Series



### Dimensions

1640mm / 990mm / 40mm

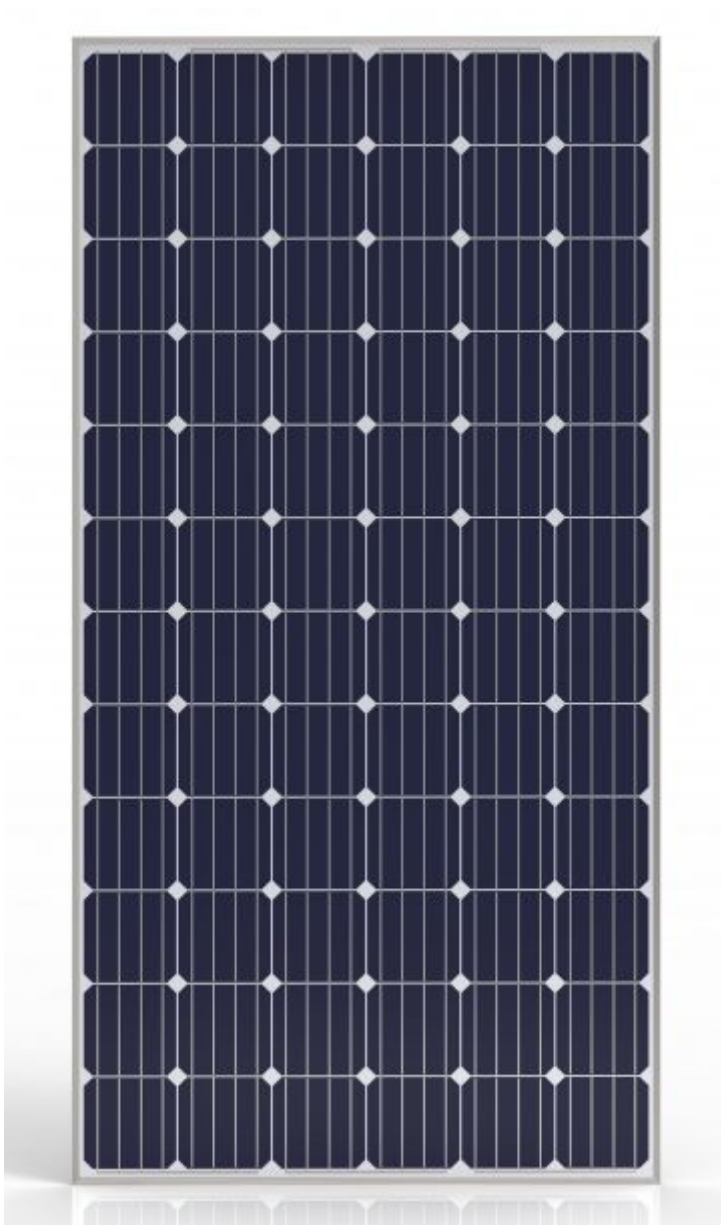
### Module Type

- YL290D-30b, with peak power of 290 W
- YL285D-30b, with peak power of 285 W
- YL280D-30b, with peak power of 280 W
- YL275D-30b, with peak power of 275 W
- YL270D-30b, with peak power of 270 W

The standard-sized module of the series. With an efficiency of up to 17.9% the YLM 60 Cell is ideal for all types of applications where efficiency is essential, ranging from residential and commercial projects to large-scale power plants.



## YLM 72 Cell Series



### Dimensions

1960mm / 990mm / 40mm

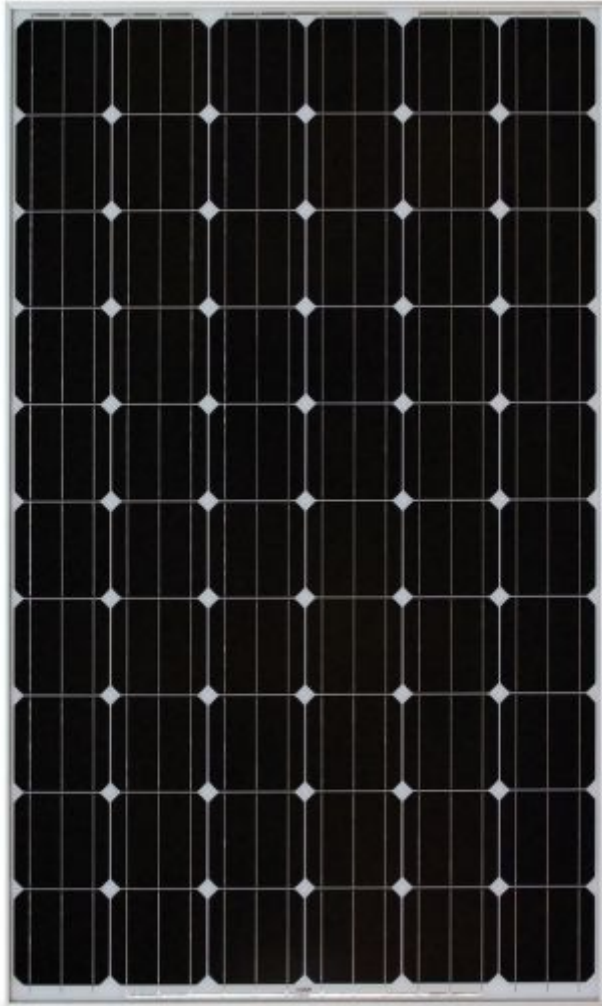
### Module Type

- YL340D-36b, with peak power of 340 W
- YL335D-36b, with peak power of 335 W
- YL330D-36b, with peak power of 330 W
- YL325D-36b, with peak power of 325 W
- YL320D-36b, with peak power of 320 W
- YL315D-36b, with peak power of 315 W

The workhorse of our monocrystalline product line, the YLM 72 Cell solar panel is the largest in our portfolio and is ideal for large-scale power plants.

This larger version facilitates cost savings at a system level e.g. for handling and installation, with the reassurance of proven solar quality.

### PANDA 60 Cell Series



#### Dimensions

1640 mm / 990 mm / 40 mm

#### Module Type

- YL300C-30b, with peak power of 300 W
- YL295C-30b, with peak power of 295 W
- YL290C-30b, with peak power of 290 W
- YL285C-30b, with peak power of 285 W
- YL280C-30b, with peak power of 280 W
- YL275C-30b, with peak power of 275 W

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### YGE 60 Cell Series



#### Dimensions

1640 mm / 990 mm / 35 mm

#### Module Type

- YL275P-29b, with peak power of 275 W
- YL270P-29b, with peak power of 270 W
- YL265P-29b, with peak power of 265 W
- YL260P-29b, with peak power of 260 W

- YL255P-29b, with peak power of 255 W
- YL250P-29b, with peak power of 250 W

Our signature product, the YGE 60 Cell, is the most versatile module. While compact enough to fit on residential and commercial roofs, it is still economical enough to meet the needs of larger, utility-scale projects. This series is UL and IEC certified which are both universally recognized and respected throughout the solar industry.

### YGE 72 Cell Series



## Dimensions

1960 mm / 990 mm / 40 mm

## Module Type

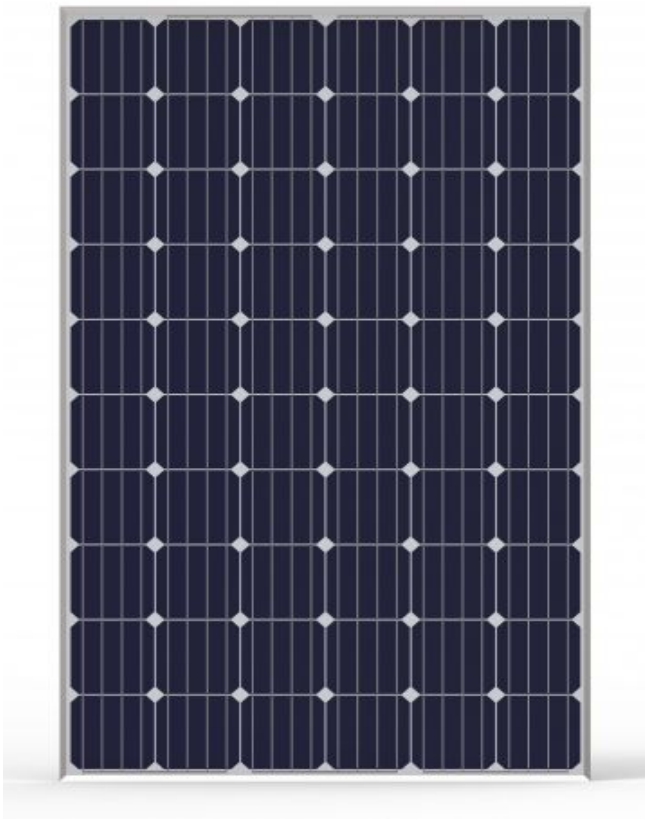
- YL325P-35b, with peak power of 325 W
- YL320P-35b, with peak power of 320 W
- YL315P-35b, with peak power of 315 W
- YL310P-35b, with peak power of 310 W
- YL305P-35b, with peak power of 305 W
- YL300P-35b, with peak power of 300 W

The workhorse of our multicrystalline product line, the YGE 72 Cell solar panel is the largest in our portfolio and is ideal for large-scale power plants. This solar panel has a proven track-record of operation in dozens of countries and several of the world's most prominent utility projects.

This solar module series is UL and IEC certified, which are both universally recognized and respected throughout the solar industry.

## **POWER PLANTS**

### YLM 60 Cell Series



## Dimensions

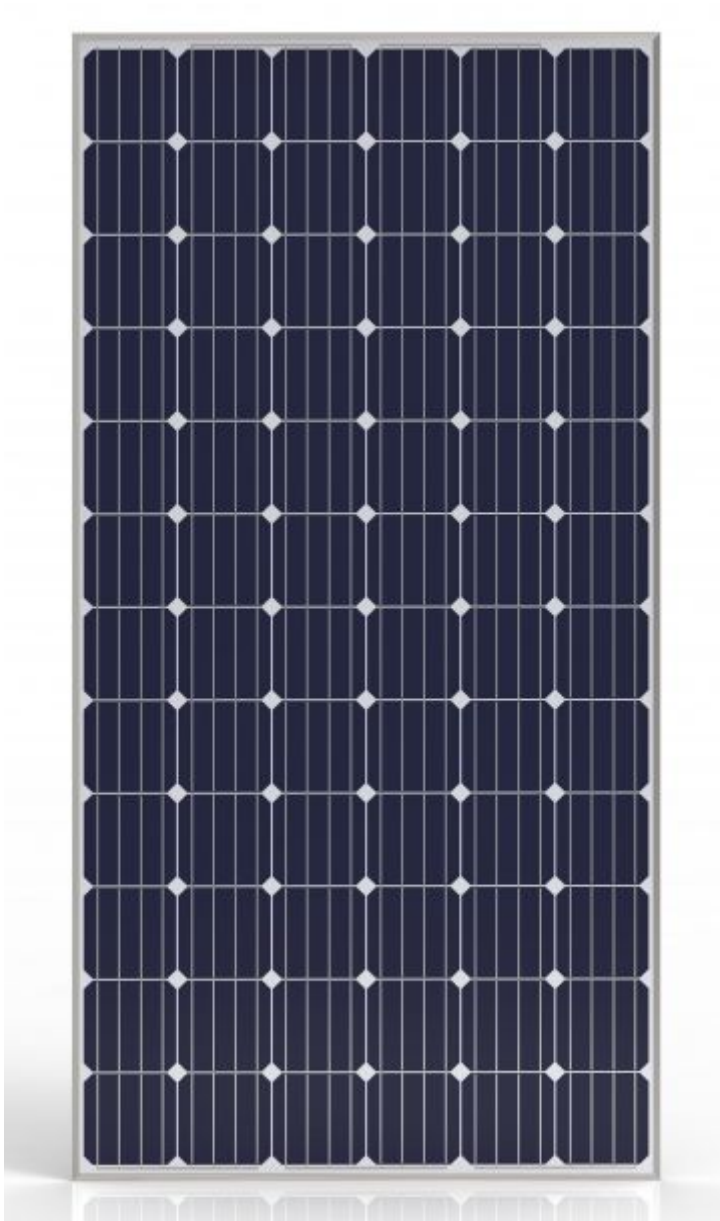
1640mm / 990mm / 40mm

#### Module Type

- YL290D-30b, with peak power of 290 W
- YL285D-30b, with peak power of 285 W
- YL280D-30b, with peak power of 280 W
- YL275D-30b, with peak power of 275 W
- YL270D-30b, with peak power of 270 W

The standard-sized module of the series. With an efficiency of up to 17.9% the YLM 60 Cell is ideal for all types of applications where efficiency is essential, ranging from residential and commercial projects to large-scale power plants.

#### YLM 72 Cell Series



## Dimensions

1960mm / 990mm / 40mm

## Module Type

- YL340D-36b, with peak power of 340 W
- YL335D-36b, with peak power of 335 W
- YL330D-36b, with peak power of 330 W
- YL325D-36b, with peak power of 325 W
- YL320D-36b, with peak power of 320 W
- YL315D-36b, with peak power of 315 W

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This larger version facilitates cost savings at a system level e.g. for handling and installation, with the reassurance of proven solar quality.

## YGE 60 Cell Series



## Dimensions

1640 mm / 990 mm / 35 mm

## Module Type

- YL275P-29b, with peak power of 275 W
- YL270P-29b, with peak power of 270 W
- YL265P-29b, with peak power of 265 W
- YL260P-29b, with peak power of 260 W
- YL255P-29b, with peak power of 255 W
- YL250P-29b, with peak power of 250 W

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## YGE 72 Cell Series





## Dimensions

1960 mm / 990 mm / 40 mm

## Module Type

- YL325P-35b, with peak power of 325 W
- YL320P-35b, with peak power of 320 W
- YL315P-35b, with peak power of 315 W
- YL310P-35b, with peak power of 310 W
- YL305P-35b, with peak power of 305 W
- YL300P-35b, with peak power of 300 W

The workhorse of our multicrystalline product line, the YGE 72 Cell solar panel is the largest in our portfolio and is ideal for large-scale power plants. This solar panel has a proven track-record of operation in dozens of countries and several of the world's most prominent utility projects.

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## **OFF-GRID**

### YLSYS 300 Series



## Module Type

YGE 140 series × 2

## Inverter Type

YLCI 500-24 x 1

## Battery Type

12V/150Ah × 2

## Cables and Other Components

1 set

## Recommended Load

Energy-saving lamp (9W), 4 sets, 4 hours/day

TV & IRD (120W), 1 set, 4 hours/day

DVD player (40W), 1 set, 4 hours/day

### YLSYS 800 Series



Module Type

YGE 140 series × 6

Inverter Type

YLCI 750-24 x 1

Battery Type

12V/200Ah × 2

Cables and Other Components

1 set

Recommended Load

Energy-saving lamp (9W), 4 sets, 4 hours/day

TV & IRD (150W), 1 set, 4 hours/day

DVD player (40W), 1 set, 4 hours/day

Freezer, 1 set, 24 hours/day

### YLSYS 1200 Series



Module Type

YGE 140 series × 8

Inverter Type  
YLCI 2000-48 x 1

Battery Type  
12V/150Ah x 4

Cables and Other Components  
1 set

Recommended Load  
Energy-saving lamp (9W), 4 sets, 4 hours/day

TV & IRD (200W), 1 set, 4 hours/day

DVD player (40W), 1 set, 4 hours/day

Washer (300W), 1 set, 1 hour/day

Refrigerator, 1 set, 24 hours/day

### YLSYS 1600 Series



Module Type  
YGE 140 series x 12

Inverter Type  
YLCI 2000-48 x 1

Battery Type  
12V/200Ah x 4

Cables and Other Components  
1 set

Recommended Load  
Energy-saving lamp (9W), 4 sets, 4 hours/day

TV & IRD (200W), 1 set, 4 hours/day

DVD player (40W), 1 set, 4 hours/day

Washer (300W), 1 set, 1 hour/day

Refrigerator, 1 set, 24 hours/day

Induction cooker, 1 set, 1 hour/day

# Monocrystalline Solar Panels

We are on the forefront of solar innovation.

Our new PANDA-series solar panels use n-doped silicon instead of the industry-standard p-type silicon. Key advantages of n-type modules include insensitivity to metallic impurities, a more efficient conversion of infrared light into electricity, and a lower initial degradation rate. Combined with high transmission glass, the result is a highly efficient, next-generation solar panel that delivers impressive performance.



PANDA was first realized through an in-house collaboration between the Energy Research Center of the Netherlands (ECN) and Amtech Systems, Inc., two of the world's leaders in solar power technology. Today's average cell efficiency on commercial production lines exceeds 19.8% with up to 17.2% module conversion efficiency.

PANDA is ideal for commercial or residential projects where energy output is essential.

# Multicrystalline Solar Panels

Our high-performing multicrystalline solar panels achieve an excellent module-level efficiency of up to 16.0%.

Used widely across solar projects for homes, businesses, and large-scale power plants, these reliable, high-efficiency solar panels minimize installation costs and maximize kWh output.

## YGE Series

Our multicrystalline modules deliver above-average energy yields. Our strategic partnership with the technical inspection agency, TÜV Rheinland, ensures quality you can rely on across the entire product portfolio. Currently, we are one of the few manufacturers to provide solar modules with the independently-tested Power Controlled seal from TÜV.