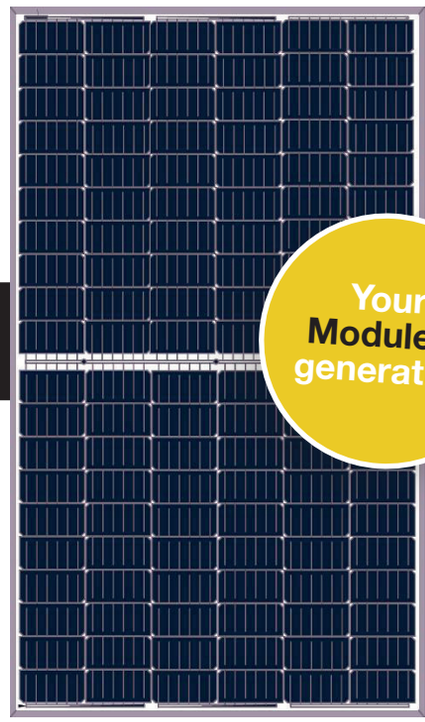
# YMX-60PD-345~365M

YMX Euro Solar®

Yimeixu WitChip Energy Hitech Co., Ltd. is a leading supplier of intelligent solar energy system solutions. Yimeixu was founded in 2015 with registered capital of 45 million US dollars. It is located in Quzhou, Zhejiang Province, near Shanghai and occupies 84,000m². After years of practice, Yimeixu independently developed the series of “Sol y Smart” products including module-level MPPT smart optimization chip, smart optimizer, smart module and smart operation and maintenance system, which greatly reduced the cost of smart systems. Till the end of 2018, Yimeixu has accumulated total delivery over 3GW of mono modules.




## Big Cells Half-cut Bifacial PERC Modules

**High Efficiency**

**Low LID Bifacial PERC With Half-cut Technology**

**Front side performance equivalent to conventional low LID mono PERC**
High module conversion efficiency (up to 19.4%) Better energy yield with ex-cellent low irradiance performance and temperature coefficient First year power degradation <2%

**Bifacial technology** enables additional energy harvesting from rear side (up to 25%)

**Glass/glass lamination** ensures 30 year product lifetime, with annual power degradation <0.45%, 1500V compatible to reduce BOS cost

**30mm frame design** enables easy installation and robust mechanical strength

**Solid PID resistance** ensured by solar cell process optimization and careful module BOM selection

**Reduced resistive loss** with lower operating current

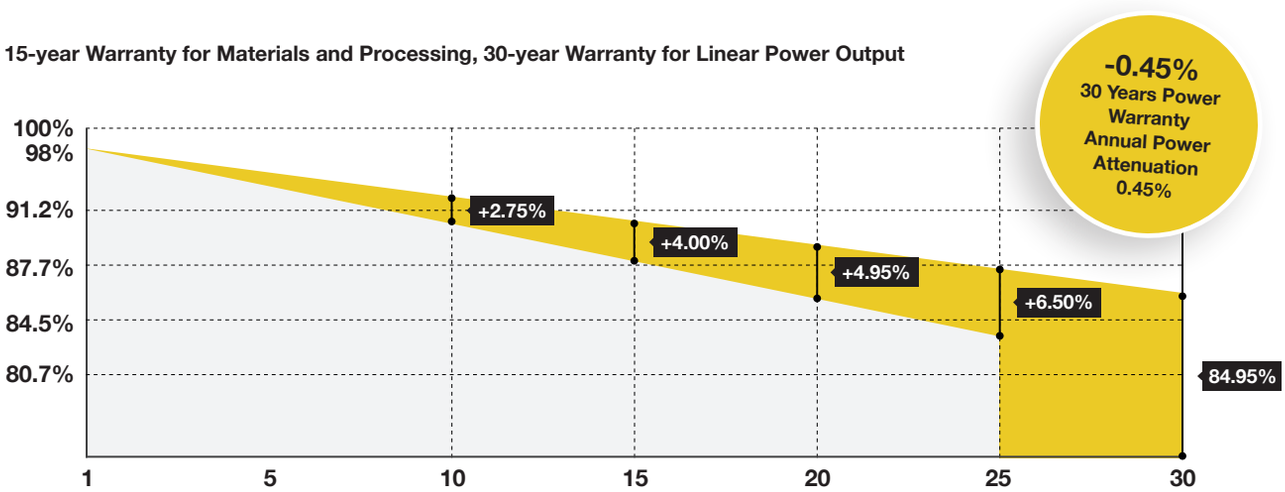
**Higher energy yield** with lower operating temperature

**Reduced hot spot risk** with optimized electrical design and lower operating current

## Complete System and Product Certificates

IEC 61215 , IEC 61730 , IEC 62804-1: CQC , CE , TUV , PID
ISO 9001: 20 15 : ISO Quality Management System
ISO 14 001: 20 15 : ISO Environment Management System
OHSAS 18001: Occupational Health and Safety Management System

**15-year Warranty for Materials and Processing, 30-year Warranty for Linear Power Output**

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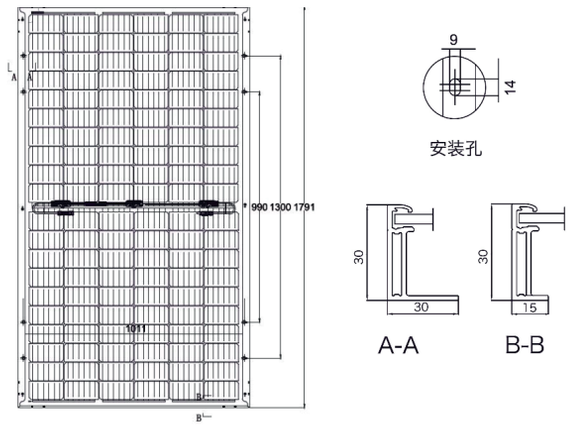
Sun, technology future.

## Design (unit: mm)




## Mechanical Parameters

**Number of cells:** 120 (6×20)

**Junction Box:** IP68, 3 diodes

**Output Cable:** 4mm2, 300mm in length, length can be customized

**Connector:** MC4 or compatible with MC4

**Glass:** Dual Glass 2.0mm tempered glass

**Weight:** 24kg

**Dimension:** 1791×1052×30mm

**Packaging:** 35pcs per pallet, 210pcs/20'GP, 840pcs/40'HC

## Operating Parameters

**Operating Temperature:** -40°C~ +85°C

**Power Output Tolerance:** 0 ~ +5W

**Voc and Isc Tolerance:** ±3%

**Max System Voltage:** DC1500V (IEC)

**Maximum Series Fuse Fuse:** 20A

**NOCT:** 45±2°C

**Safety Class:** Class II

## Electrical Characteristics

**Test uncertainty for Pmax: ±3%**

| Module Type | YMX-60PD-345M | | YMX-60PD-350M | | YMX-60PD-355M | | YMX-60PD-360M | | YMX-60PD-365M | |
|---|---|---|---|---|---|---|---|---|---|---|
| **Test Condition** | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT |
| **Maximum Power(Pmax/W)** | 345 | 256.5 | 350 | 260.3 | 355 | 264.0 | 360 | 267.7 | 365 | 271.4 |
| **Open Circuit Voltage(Voc/V)** | 40.7 | 37.9 | 40.9 | 38.1 | 41.1 | 38.3 | 41.3 | 38.5 | 41.5 | 38.7 |
| **Short Circuit Current(Isc/A)** | 10.88 | 8.81 | 10.96 | 8.87 | 11.04 | 8.94 | 11.11 | 8.99 | 11.18 | 9.05 |
| **Maximum Power Voltage(Vmp/V)** | 33.7 | 31.3 | 33.9 | 31.5 | 34.1 | 31.7 | 34.3 | 31.8 | 34.5 | 32.0 |
| **Maximum Power Current(Imp/A)** | 10.24 | 8.20 | 10.33 | 8.27 | 10.42 | 8.35 | 10.50 | 8.41 | 10.58 | 8.47 |
| **Module Efficiency(%)** | 18.3 | / | 18.6 | / | 18.8 | / | 19.1 | / | 19.4 | / |

STC (Standard Testing Condition): Irradiance 1000W/m2, Cell Temperature 25°C, Air Mass 1.5

NOCT (Nominal Operating Cell Temperature): Irradiance 800W/m2, Ambient Temperature 20°C, Air Mass 1.5, Wind Speed 1m/s

## Electrical characteristics with different rear side power gain (reference to 305W front)

| Pmax (W) | Voc (V) | Isc (A) | Vmp (V) | Imp (A) | Pmax gain |
|---|---|---|---|---|---|
| 373 | 41.1 | 11.59 | 34.1 | 10.94 | 5% |
| 391 | 41.1 | 12.14 | 34.1 | 11.46 | 10% |
| 408 | 41.2 | 12.70 | 34.2 | 11.98 | 15% |
| 426 | 41.2 | 13.25 | 34.2 | 12.50 | 20% |
| 444 | 41.2 | 13.80 | 34.2 | 13.03 | 25% |

## Temperature Coefficient (STC)

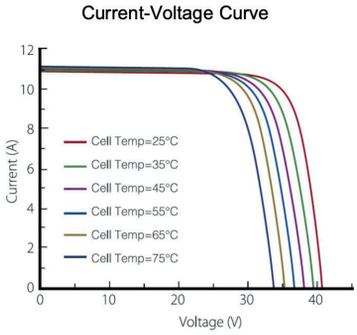
| | |
|---|---|
| **Temperature Coefficient of Isc** | +0.060%/°C |
| **Temperature Coefficient of Voc** | -0.300%/°C |
| **Temperature Coefficient of Pmax** | -0.370%/°C |

## Mechanical Loading

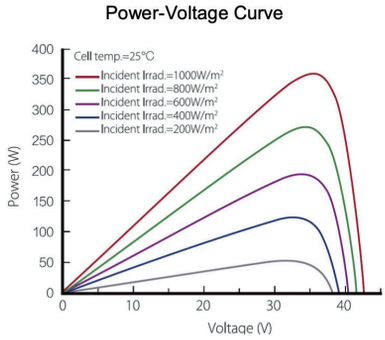
| | |
|---|---|
| **Maximum Front Static Load (Wind or Snow)** | 5400Pa |
| **Maximum Rear Static Load (Wind)** | 2400Pa |
| **Hailstone Test** | 25mm Hailstone at the speed of 23m/s |

## I-V Curve

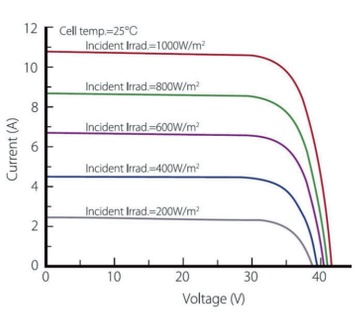
Current-Voltage Curve




Power-Voltage Curve




At different irradiance




* Note: Due to continuous technical innovation, R&D and improvement, technical data above mentioned may be of modification accordingly. Yimeixu have the sole right to make such modification at anytime without further notice; Demanding party shall request for the latest datasheet for such as contract need, and make it a consisting and binding part of lawful documentation duly signed by both parties.