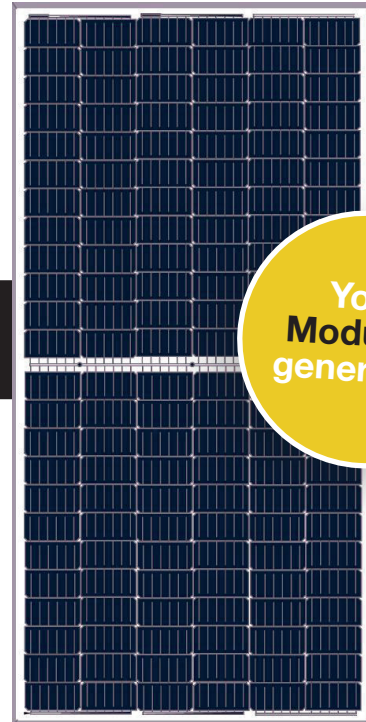


# YMX-72PE-420~440M



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 84,000m<sup>2</sup>. 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.



## High Efficiency With Half-cut Technology

**High Efficiency**

**Low LID**

**Mono PERC With Half-cut Technology**

**Positive power tolerance**  
(0~+5W) guaranteed

**High module conversion efficiency**  
(up to 19.8%)

**Slower power degradation**  
enable by low LID Mono PERC technology:  
first year <3%, 0.55% year 2-25

**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

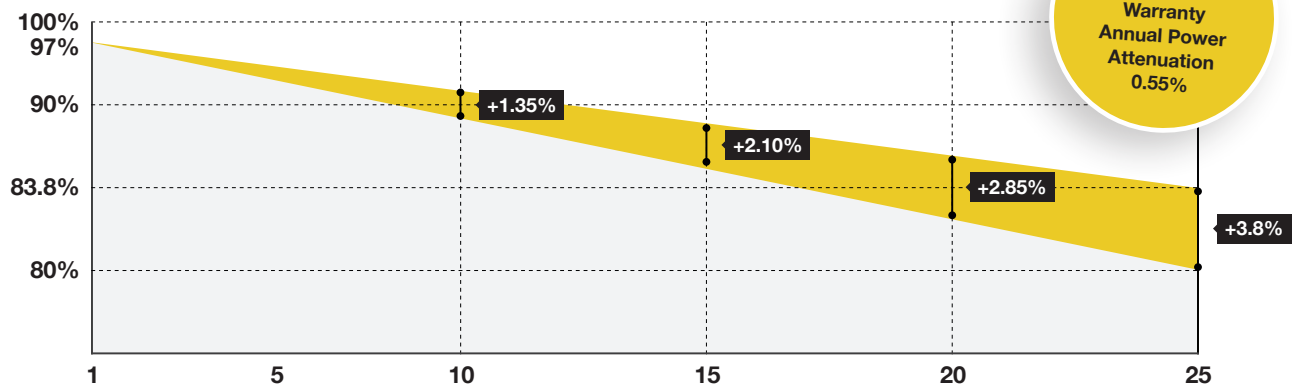
**Reduced hot spot risk**  
with optimized electrical design and lower operating current

## Complete System and Product Certificates

IEC61215, IEC61730, IEC62804-1: CQC, CE, TUV, PID  
ISO 9001: 2015: ISO Quality Management System  
ISO 14001: 2015: ISO Environment Management System  
OHSAS 18001: Occupational Health and Safety Management System

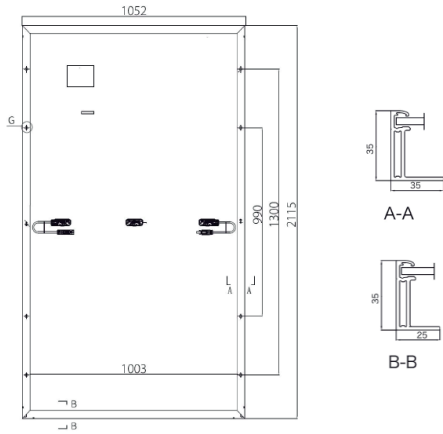


## 15-year Warranty for Materials and Processing, 25-year Warranty for Linear Power Output



Standard Module Linear Power Warranty  
 Additional value from YMX's Linear Warranty

## Design (unit: mm)



## Mechanical Parameters

**Number of cells:** 144 (6×24)

**Junction Box:** IP68, 3 diodes

**Output Cable:** 4mm<sup>2</sup>, 300mm in length, length can be customized

**Connector:** MC4 or compatible with MC4

**Glass:** 3.2mm coated tempered glass

**Weight:** 24kg

**Dimension:** 2115×1052×35mm

**Packaging:** 30pcs per pallet,  
150pcs/20'GP, 660pcs/40'HC

## Operating Parameters

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

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

**Voc and Isc Tolerance:** ±3%

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

**Maximum Series Fuse:** 20A

**NOCT:** 45±2°C

**Safety Class:** Class II

## Electrical Characteristics

Test uncertainty for Pmax: ±3%

Module Type	YMX-72PE-420M		YMX-72PE-425M		YMX-72PE-430M		YMX-72PE-435M		YMX-72PE-440M	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
<b>Maximum Power(Pmax/W)</b>	420	311.1	425	314.8	430	318.5	435	322.2	440	326.0
<b>Open Circuit Voltage(Voc/V)</b>	48.8	45.5	49.0	45.7	49.2	45.9	49.4	46.1	49.6	46.3
<b>Short Circuit Current(Isc/A)</b>	11.04	8.90	11.11	8.95	11.19	9.02	11.26	9.08	11.33	9.13
<b>Maximum Power Voltage(Vmp/V)</b>	40.2	37.1	40.4	37.3	40.6	37.5	40.8	37.7	41.0	37.9
<b>Maximum Power Current(Imp/A)</b>	10.45	8.38	10.52	8.44	10.60	8.50	10.67	8.56	10.74	8.61
<b>Module Efficiency(%)</b>	18.9	/	19.1	/	19.3	/	19.6	/	19.8	/

STC (Standard Testing Condition): Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, Air Mass 1.5

NOCT (Nominal Operating Cell Temperature): Irradiance 800W/m<sup>2</sup>, Ambient Temperature 20°C, Air Mass 1.5, Wind Speed 1m/s

## Temperature Coefficient (STC)

**Temperature Coefficient of Isc** +0.057%/°C

**Temperature Coefficient of Voc** -0.286%/°C

**Temperature Coefficient of Pmax** -0.370%/°C

## Mechanical Loading

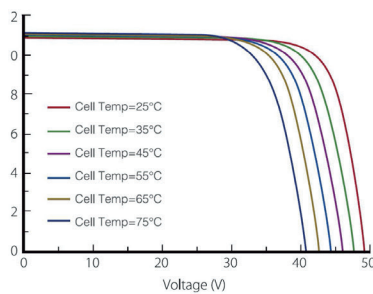
**Maximum Front Static Load (Wind or Snow)** 5400Pa

**Maximum Rear Static Load (Wind)** 2400Pa

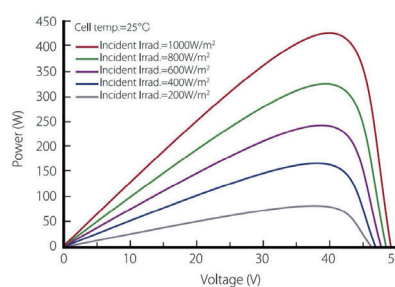
**Hailstone Test** 25mm Hailstone at the speed of 23m/s

## I-V Curve

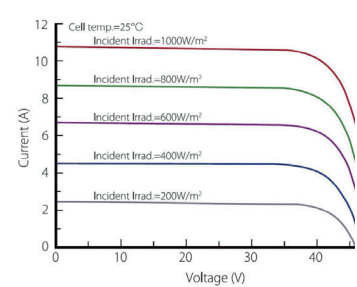
Current-Voltage Curve



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.