

YMX-72PD-415~435M

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.



Your
Module X
generation

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 excellent 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

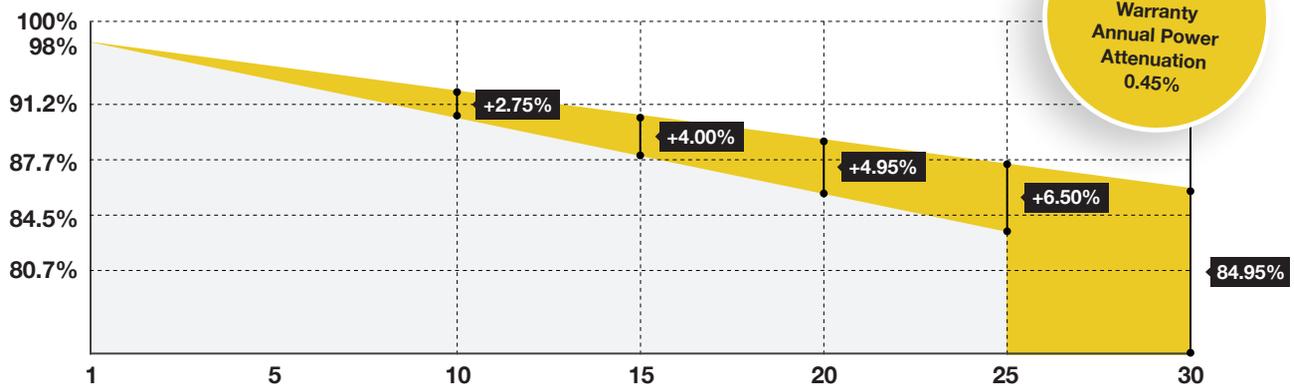
Reduced hot spot risk with optimized electrical design and lower operating current

Complete System and Product Certificates

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

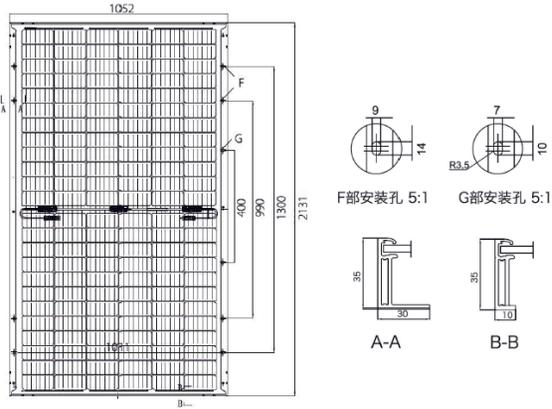


15-year Warranty for Materials and Processing, 30-year Warranty for Linear Power Output



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

Design (unit: mm)



Mechanical Parameters

Operating Parameters

Number of cells: 144 (6×24)	Operating Temperature: -40°C~ +85°C
Junction Box: IP68, 3 diodes	Power Tolerance: 0 ~ +5W
Output Cable: 4mm ² , 300mm in length, length can be customized	Voc and Isc Tolerance: ±3%
Connector: MC4 or compatible with MC4	Max System Voltage: DC1500V (IEC)
Glass: Dual Glass 2.0mm tempered glass	Maximum Series Fuse: 20A
Weight: 29.5kg	NOCT: 45±2°C
Dimension: 2131×1052×35mm	Safety Class: Class II
Packaging: 30pcs per pallet, 150pcs/20'GP, 600pcs/40'HC	

Electrical Characteristics

Test uncertainty for Pmax: ±3%

Module Type	YMX-72PD-415M		YMX-72PD-420M		YMX-72PD-425M		YMX-72PD-430M		YMX-72PD-435M	
	STC	NOCT								
Maximum Power(Pmax/W)	415	308.6	420	312.3	425	316.0	430	319.7	435	323.5
Open Circuit Voltage(Voc/V)	49.0	45.6	49.2	45.8	49.4	46.0	49.6	46.2	49.8	46.4
Short Circuit Current(Isc/A)	10.89	8.82	10.96	8.87	11.02	8.93	11.09	8.98	11.16	9.04
Maximum Power Voltage(Vmp/V)	40.6	37.7	40.8	37.9	41.0	38.1	41.2	38.2	41.4	38.4
Maximum Power Current(Imp/A)	10.23	8.19	10.30	8.25	10.37	8.30	10.44	8.36	10.51	8.42
Module Efficiency(%)	18.5	/	18.7	/	19.0	/	19.2	/	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 365W front

Pmax (W)	Voc (V)	Isc (A)	Vmp (V)	Imp (A)	Pmax gain
446	49.4	11.58	41.0	10.88	5%
468	49.4	12.13	41.0	11.40	10%
489	49.5	12.68	41.1	11.92	15%
510	49.5	13.23	41.1	12.44	20%
531	49.5	13.78	41.1	12.96	25%

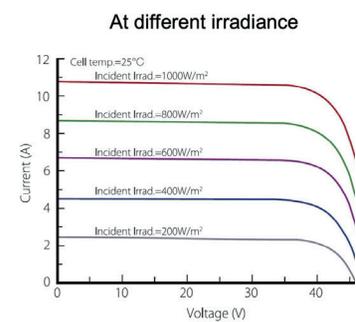
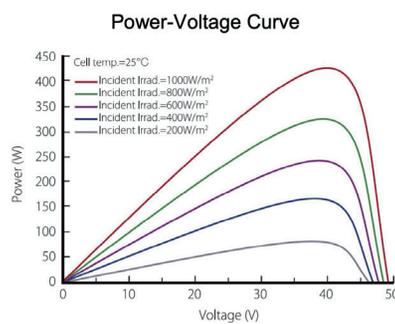
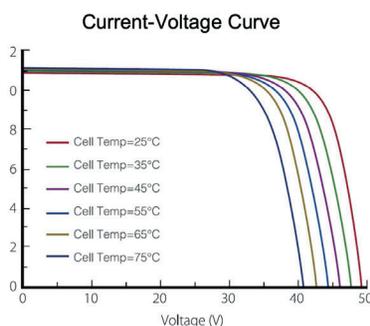
Temperature Coefficient STC

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



* 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.