



East Lux
Power from East

EL-420~440M3 -72H (9BB)

**Bifacial DG Mono Crystalline PERC
Solar Module Frame**

KEY FEATURES >>>>



9 Busbar Solar Cell:

9 busbar solar cell adopts new technology to improve the efficiency of modules, offers a better aesthetic appearance, making it perfect for rooftop installation.



High Power Output:

With up to 440 Wp and 19.63% efficiency, highest performing module of its kind on the market.



PID RESISTANT:

Limited power degradation caused by PID effect is guaranteed under strict testing condition (85°C/85%RH, 96 hours) for mass production.



Low-light Performance:

Advanced glass and surface texturing allow for excellent performance in low-light environments.



Severe Weather Resilience:

Certified to withstand: wind load (3800 Pascal) and snow load (5400 Pascal).



Durability against extreme environmental conditions:

High salt mist and ammonia resistance certified by TÜV SÜD.

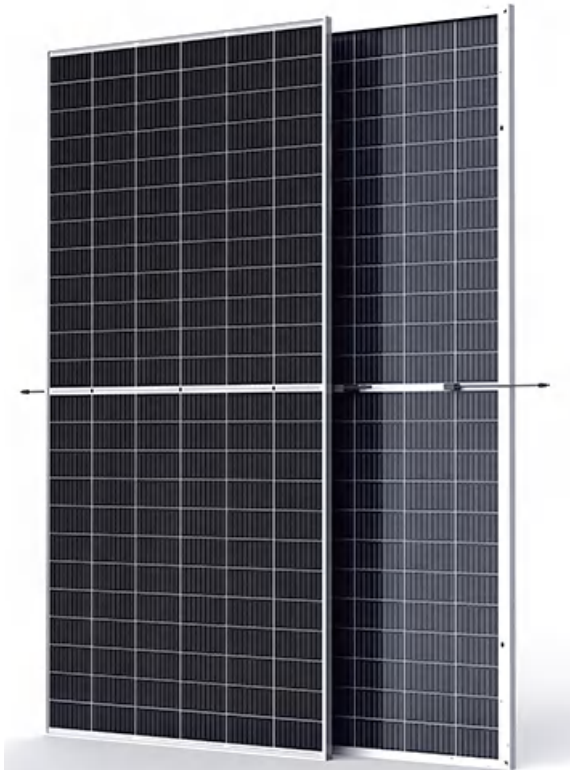


Temperature Coefficient:

Improved temperature coefficient decreases power loss during high temperatures.

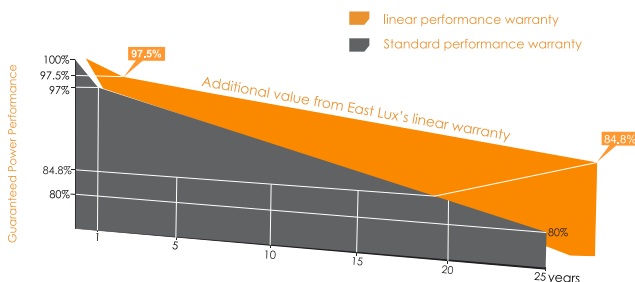


Specifications subject to technical change and tests. East Lux reserves the right of final interpretation.



LINEAR PERFORMANCE WARRANTY

12 Years Product Warranty 25 Years Linear Power Warranty



Comprehensive Certificates

- IEC 61215, IEC 61730, UL1703, CEC Listed, MCS and CE
- ISO 9001:2008: Quality management systems
- ISO 14001:2004: Environmental management systems
- BS OHSAS 18001: 2007: Occupational health and safety management system
- Environmental policy: The first solar company in China to complete Intertek's carbon footprint evaluation program and receive green leaf mark verification for our products

Reliable Quality

- Positive power tolerance: 0~+5W
- 100% EL double-inspection ensures modules are defect-free
- Modules binned by current to improve system performance
- Potential Induced Degradation (PID) Resistant

Module Type	EL-420M3-72H		EL-425M3-72H		EL-430M3-72H		EL-435M3-72H		EL-440M3-72H	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Peak Power (Pmax)	420W	312W	425W	315W	430W	318W	435W	321W	440W	324W
Open Circuit Voltage (Voc)	48.80V	45.39V	49.00V	45.42V	49.20V	45.45V	49.39V	45.48V	49.59V	45.51V
Short circuit Current (Isc)	11.04A	8.90A	11.11A	8.96A	11.18A	9.03A	11.25A	9.09A	11.32A	9.16A
Peak Power Voltage (Vmpp)	40.19V	37.23V	40.40V	37.32V	40.60V	37.46V	40.81V	37.56V	41.01V	37.67V
Peak Power Current (Imp)	10.45A	8.38A	10.52A	8.44A	10.59A	8.49A	10.66A	8.55A	10.73A	8.60A
Component Efficiency (%)	18.73%		18.96%		19.18%		19.40%		19.63%	

STC(Standard Testing Conditions): Irradiance 1000W/m²,Cell Temperature 25°C,AM1.5
 NMOT(Nominal Module Operating Temperature): Irradiance 800W/m²,Ambient Temperature 20°C,Wind Speed 1m/s

Rear Side Power Gain

5%	Peak Power (Pmax)	441W	446W	452W	457W	462W
	Component Efficiency (%)	19.67%	19.91%	20.14%	20.37%	20.61%
10%	Peak Power (Pmax)	483W	489W	495W	500W	506W
	Component Efficiency (%)	21.55%	21.80%	22.06%	22.31%	22.57%
20%	Peak Power (Pmax)	525W	531W	538W	544W	550W
	Component Efficiency (%)	23.42%	23.70%	23.98%	24.25%	24.53%



Temperature Characteristics

Standard Working Temperature (Noct)	45±2°C
Peak Power Temperature Coefficient	-0.36%/°C
Temperature Coefficient of Open Circuit Voltage	-0.28%/°C
Short-circuit Current Temperature Coefficient	+0.05%/°C



Temperature Characteristics

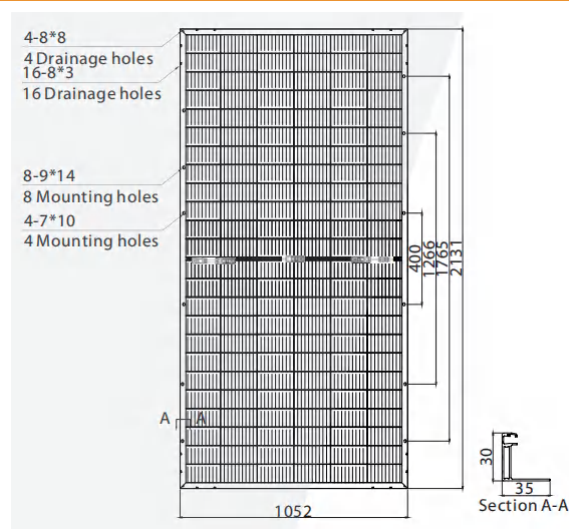
Working Temperature	-40°C to~+85°C
Maximum System Voltage	DC 1500V (IEC)
Maximum Fuse Rating	20A
Power Tolerance	0/+5W



Mechanical Data

Cell Type	166x83mm Mono
Cell Orientation	144(6x24)
Module Dimension	2131*1052*30mm
Weight	30.0kg
Front	2.0mm semi-tempered Glass
Back	2.0mm semi-tempered Glass
Aluminum Frame	Anodized Aluminum Alloy
Junction Box	IP68 (3 Bypass Diodes)
	4.0mm ²
Connecting Cable	300mm(+)/300mm(-)
Plug Connector	MC4 compatible connector
Maximum Mechanical Load	Front 5400Pa/Back 2400Pa

Module Dimensions(mm)

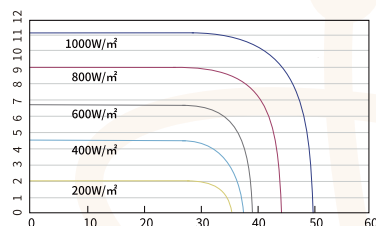


Specifications in this datasheet are subject to change without prior notice.

I-V Curve

Current-Voltage Curve (430W)

Current (A)



STC

- Irradiance 1000W/m²
- Cell Temperature 25°C
- AM=1.5

NOCT

- Irradiance 800W/m²
- Ambient Temperature 20°C
- Wind Speed 1m/s
- AM=1.5

Packaging Configuration

Modules per Pallet: 30pcs
 Modules per 40' HQ Container: 682pcs
 Modules per 20' GP Container: 150pcs

* Power measurement tolerance: ± 3%

Electrical data in this catalogue do not refer to a single module and they are not part of the offer. They only serve for comparison among different module types.