



East Lux
Power from East

EL-435~455M -72H (9BB)

Mono Crystalline PERC Solar Module

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 455 Wp and 20.45% 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 (2400 Pascal) and snow load (5400 Pascal).



Durability against extreme environmental conditions:

High salt mist and ammonia resistance certified by TÜV SÜD.

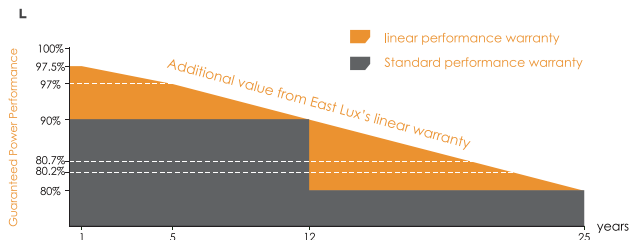


Temperature Coefficient:

Improved temperature coefficient decreases power loss during high temperatures.

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 defects free
- Modules binned by current to improve system performance
- Potential Induced Degradation (PID) Resistant



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

SPECIFICATIONS

Module Type	EL-435M-72H		EL-440M-72H		EL-445M-72H		EL-450M-72H		EL-455M-72H	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Peak Power (Pmax)	435W	324W	440W	328W	445W	332W	450W	336W	455W	340W
Peak Power Voltage (Vmp)	41.41V	38.50V	41.61V	38.70V	41.81V	38.90V	42.01V	39.10V	42.12V	39.21V
Peak Power Current (Imp)	10.51A	8.43A	10.58A	8.49A	10.65A	8.54A	10.72A	8.60A	10.81A	8.68A
Open Circuit Voltage (Voc)	49.28V	46.40V	49.51V	46.60V	49.74V	46.80V	49.97V	47.00V	50.08V	47.11V
Short circuit Current (Isc)	11.17A	9.07A	11.24A	9.14A	11.32A	9.21A	11.39A	9.28A	11.50A	9.37A
Component Efficiency (%)	20.01%		20.24%		20.47%		20.70%		20.93%	

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



Temperature Characteristics

Standard Working Temperature (Noct) 41±3°C

Peak Power Temperature Coefficient -0.38%/°C

Temperature Coefficient of Open Circuit Voltage -0.29%/°C

Short-circuit Current Temperature Coefficient +0.05%/°C



Temperature Characteristics

Working Temperature -40°C to~+85°C

Maximum System Voltage DC 1000V/1500V (IEC)

Maximum Fuse Rating 20A

Power Tolerance 0/+5W



Mechanical Data

Cell Type 166*83mm Mono

Cell Orientation 144 (6X24)

Module Dimension 2094*1038*40mm

Weight 24.0kg

Front 3.2mm high transmittance, reinforced glass

Aluminum Frame Anodized Aluminium Alloy

Junction Box IP68 (3 Bypass Diodes)

Cables 4.0mm²

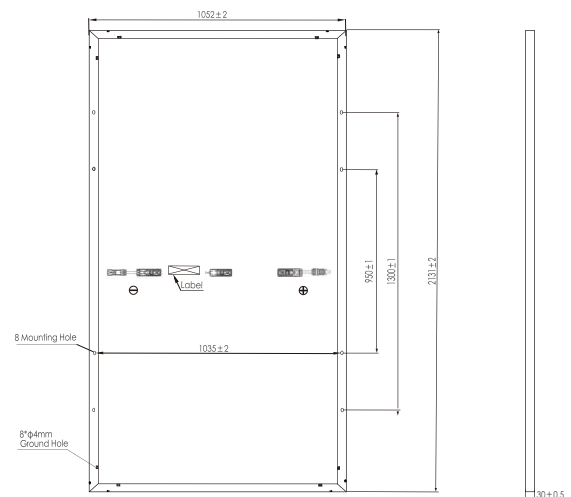
Positive(+) 300mm, Negative(-) 400mm

Wire length can be customized

Plug Connector MC4 compatible connector

Maximum Mechanical Load Front 5400Pa/Back 2400Pa

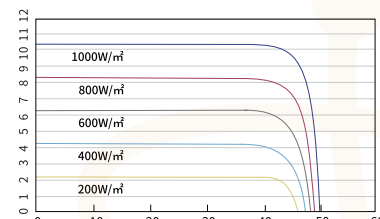
Module Dimensions(mm)



I-V Curve

Current-Voltage Curve (455W)

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: 27pcs

Modules per 40' HQ Container: 594pcs

* 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.