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# **EnergyPal**

## **Solar Panel Guide Specification Data Sheet**

**East Lux Energy Co., Ltd  
EL390~410M-72HN  
EL-390M-72HN**

Also available on the web at  
[EnergyPal.com/east-lux-energy-co-ltd-solar-panels/el-390m-72hn](http://EnergyPal.com/east-lux-energy-co-ltd-solar-panels/el-390m-72hn)

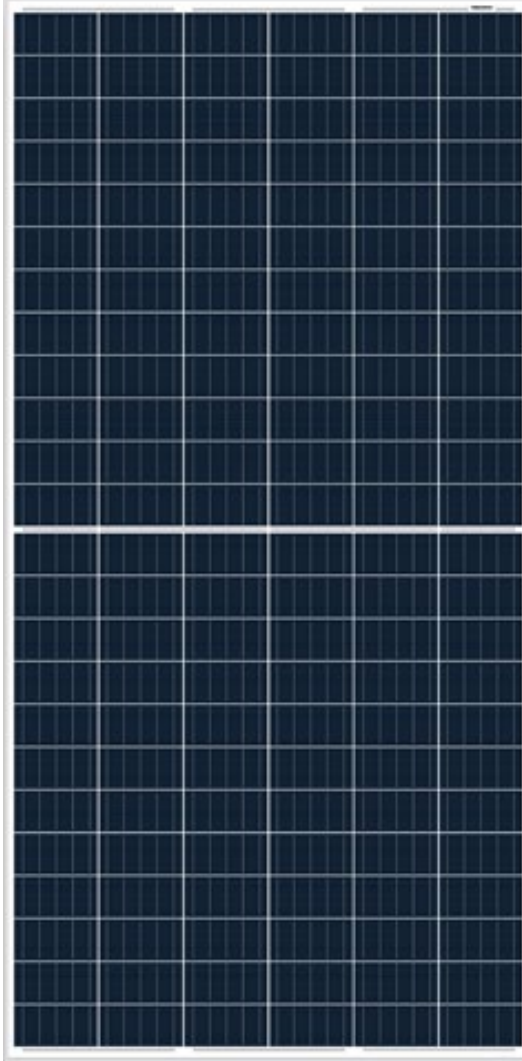


# EL390~410M-72HN

Mono Crystalline PERC Solar Module

**East Lux**  
Power from East

## KEY FEATURES



### 5 Busbar Solar Cell:

5 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 410 Wp and 20.38 % 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, 96hours) 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 TUV NORD.



### Temperature Coefficient:

Improved temperature coefficient decreases power loss during high temperatures.

## Reliable Quality

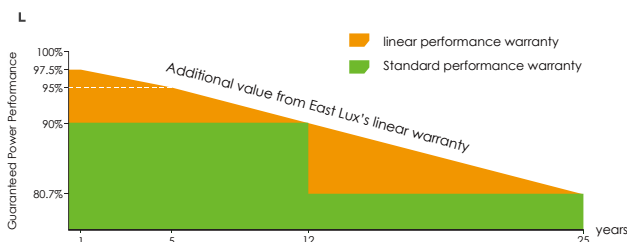
- Positive power tolerance: 0~+5W
- 100% EL double-inspection ensures modules are defects free
- Modules binned by current to improve system performance
- Potential Induced Degradation (PID) Resistant

## 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

## LINEAR PERFORMANCE WARRANTY

12 Years Product Warranty 25 Years Linear Power Warranty



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

## Electrial Data (STC)

Module Type	EL-390M-72HN	EL-395M-72HN	EL-400M-72HN	EL-405M-72HN	EL-410M-72HN
Maximum Power (Pmax/W)	390	395	400	405	410
Volage at Maximum Power (Vmp/V)	40.42	40.65	40.87	41.09	41.29
Current at Maximum Power (Imp/A)	9.65	9.72	9.79	9.86	9.93
Open circuit Voltage (Voc/V)	48.64	48.92	49.21	49.48	49.76
Short circuit Current (Isc/A)	10.15	10.22	10.29	10.36	10.43
Module Efficiency STC (%)	19.38	19.63	19.88	20.13	20.38

## Electrial Data (NMOT)

Maximum Power (Pmax/W)	290	294	298	302	306
Volage at Maximum Power (Vmp/V)	38.12	38.44	38.76	39.08	39.39
Current at Maximum Power (Imp/A)	7.61	7.65	7.69	7.73	7.77
Open circuit Voltage (Voc/V)	46.33	46.73	47.14	47.54	47.94
Short circuit Current (Isc/A)	8.13	8.17	8.21	8.25	8.29

STC(Standard Testing Conditions): Irradiance 1000W/m<sup>2</sup>,Cell Temperature 25 C,AM1.5

NMOT(Nominal Moudule Operating Temperature): Irradiance 800W/m<sup>2</sup>,Ambient Temperature 20 C, Wind Speed 1m/s

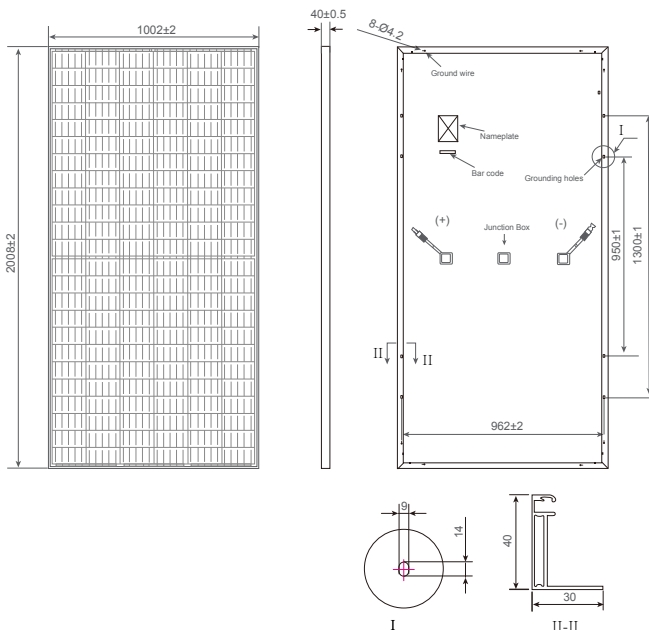
## Temperature Coefficients

Temperature Coefficients (Pm)	-0.393%/ C
Temperature Coefficients (Voc)	-0.287%/ C
Temperature Coefficients (Isc)	0.024%/ C

## Operating Parameters

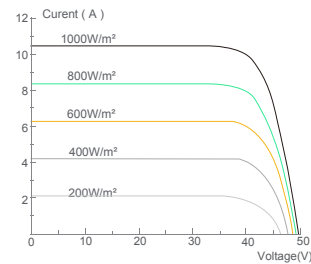
Maximum System Voltage	1000/1500V
Operating Temperature	-40 C ~+85 C
NMOT(Nominal Moudule Operating Temperature)	41±3 C

## Module Dimensions(mm)

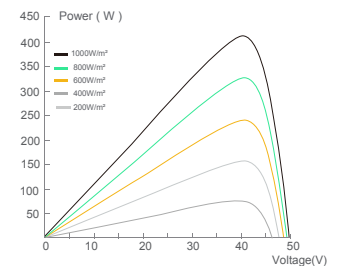


## I-V Curve

Current-Voltage Curve ( 410W )



Power-Voltage Curve ( 410W )



## Packaging Configuration

Modules per Pallet: 27+27+4pcs

Modules per 40' HQ Container: 638pcs

## Mechanical Data

Cell Type	158.75x79.375mm Mono
Cell Orientation	144(6x24)
Module Dimension	2008x1002x40mm
Weight	22.5kg
Glass	3.2mm high transmittance, reinforced glass
Backsheet	2.5mm part of the structure is grid-like white ceramic glass
Junction Box	Protection class IP67
Cable	4.0mm <sup>2</sup> photovoltaic special cable
Connector	MC4 compatible connector

\*STC: Irradiance 1000W/m<sup>2</sup>

Cell Temperature 25°C

AM=1.5

NOCT: Irradiance 800W/m<sup>2</sup>

Ambient Temperature 20°C

AM=1.5

Wind Speed 1m/s

\* 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.