

EL-570~590M5 -78H (9BB/11BB available)

High Efficiency 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 590Wp and 20.11% 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).



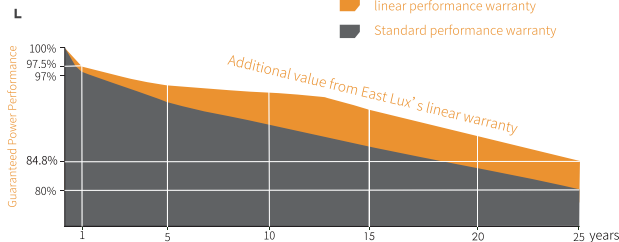
Durability against extreme environmental conditions:
High salt mist and ammonia resistance certified by TÜV SÜD.



Temperature Coefficient:
Improved temperature coefficient decreases power loss during high temperatures.

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



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

SPECIFICATIONS

Module Type	EL-570M5-78H		EL-575M5-78H		EL-580M5-78H		EL-585M5-78H		EL-590M5-78H	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Peak Power (Pmax)	570W	433W	575W	437W	580W	441W	585W	445W	590W	449W
Open Circuit Voltage (Voc)	50.88V	49.02V	51.02V	49.25V	51.15V	49.47V	51.29V	49.69V	51.42V	49.91V
Short circuit Current (Isc)	14.18A	11.23A	14.25A	11.27A	14.32A	11.31A	14.39A	11.35A	14.46A	11.39A
Peak Power Voltage (Vmpp)	42.89V	40.81V	43.04V	41.03V	43.19V	41.25V	43.33V	41.47V	43.48V	41.69V
Peak Power Current (Impp)	13.29A	10.61A	13.36A	10.65A	13.43A	10.69A	13.50A	10.73A	13.57A	10.77A
Component Efficiency (%)	20.39%		20.57%		20.75%		20.93%		21.11%	

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)	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

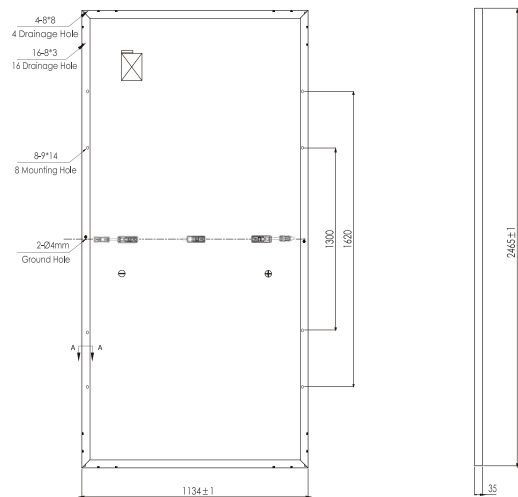
Working Temperature	-40°C to~+85°C
Maximum System Voltage	DC 1500V (IEC)
Maximum Fuse Rating	20A
Power Tolerance	0/+5W



Mechanical Data

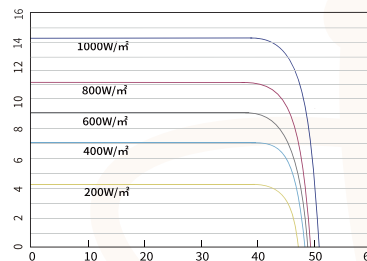
Cell Type	182*91mm Mono
Cell Orientation	156 (6X26)
Module Dimension	2465*1134*35mm
Weight	30.5kg
Front	3.2mm high transmittance, reinforced glass
Aluminum Frame	Anodized Aluminum Alloy
Junction Box	IP68 (3 Bypass Diodes)
	4.0mm ²
Connecting Cable	Cable length
	300mm (+) /400mm (-)
Plug Connector	MC4 compatible connector
Maximum Mechanical Load	Front 5400Pa

Module Dimensions(mm)



I-V Curve

Current-Voltage Curve (575W)
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: **31pcs**
 Modules per 40' HQ Container: **558pcs**

* 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.