

EL-480~500M -78H (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 500 Wp and 21.28% 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).

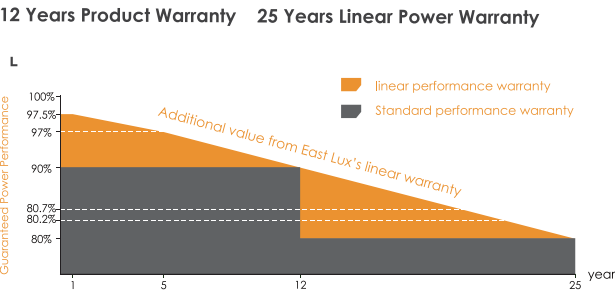


Durability against extreme environmental conditions:
High salt mist and ammonia resistance certified by TÜV SÜD.



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

LINEAR PERFORMANCE WARRANTY



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-480M-78H		EL-485M-78H		EL-490M-78H		EL-495M-78H		EL-500M-78H	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Peak Power (Pmax)	480W	359W	485W	363W	490W	367W	495W	371W	500W	375W
Peak Power Voltage (Vmpp)	45.32V	41.09V	45.43V	41.20V	45.54V	41.31V	45.65V	41.42V	45.76V	41.53V
Peak Power Current (Imp)	10.60A	8.75A	10.69A	8.82A	10.76A	8.89A	10.85A	8.97A	10.94A	9.04A
Open Circuit Voltage (Voc)	53.94V	49.59V	54.05V	49.70V	54.16V	49.81V	54.27V	49.92V	54.38V	50.03V
Short circuit Current (Isc)	11.26A	9.40A	11.36A	9.49A	11.45A	9.57A	11.55A	9.65A	11.64A	9.73A
Component Efficiency (%)	20.43%		20.64%		20.85%		21.06%		21.28%	

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



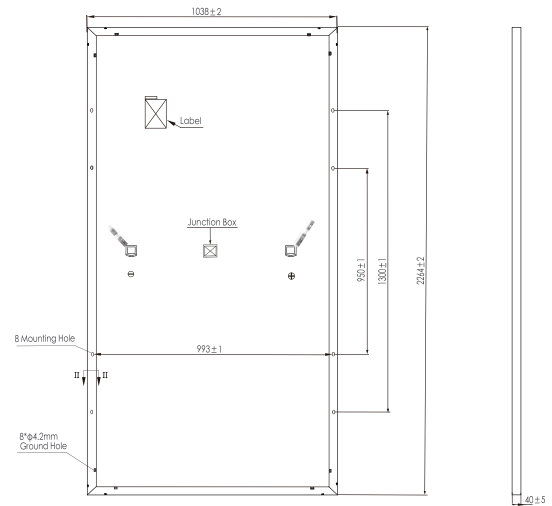
Mechanical Data

Cell Type	166*83mm Mono
Cell Orientation	156 (6X26)
Module Dimension	2264*1038*40mm
Weight	27.0kg
Front	3.2mm high transmittance, reinforced glass
Aluminum Frame	Anodized Aluminium Alloy
Junction Box	IP68 (3 Bypass Diodes)
Cables	4.0mm ²
	Positive(+) 300mm, Negative(-) 400mm
	Wire length can be customized
Plug Connector	MC4 compatible connector
Maximum Mechanical Load	Front 5400Pa/Back 2400Pa

* Power measurement tolerance: ± 3%

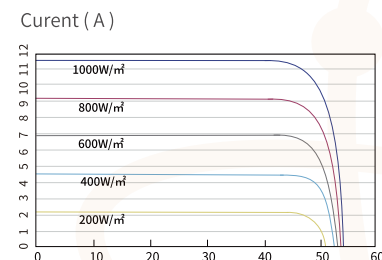
Electrical data in this catalogue do not refer to a single module and they are not part of the offer. They only serve for comparison among different module types.

Module Dimensions(mm)



I-V Curve

Current-Voltage Curve (500W)



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: 540pcs