



EL-425~445UHV -MB2 (MBB)

High Efficiency Mono Crystalline PERC Solar Module

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 445 Wp and 20.81% 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 (3800 Pascal) and snow load (5400 Pascal).

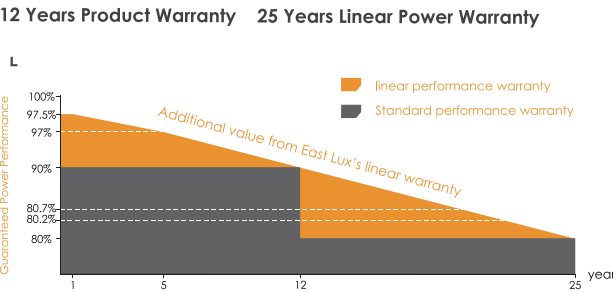


Durability against extreme environmental conditions:
High salt mist and ammonia resistance certified by TÜV SÜD.



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

LINEAR PERFORMANCE WARRANTY



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-425UHV-MB2		EL-430UHV-MB2		EL-435UHV-MB2		EL-440UHV-MB2		EL-445UHV-MB2	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Peak Power (Pmax)	425W	318W	430W	322W	435W	326W	440W	330W	445W	334W
Open Circuit Voltage (Voc)	53.62V	50.80V	53.88V	51.19V	54.13V	51.57V	54.38V	51.95V	54.62V	52.32V
Short circuit Current (Isc)	10.02A	8.13A	10.09A	8.17A	10.16A	8.21A	10.23A	8.25A	10.30A	8.29A
Peak Power Voltage (Vmpp)	44.84V	41.80V	45.04V	42.10V	45.23V	42.40V	45.42V	42.70V	45.60V	43.01V
Peak Power Current (Impp)	9.48A	7.61A	9.55A	7.65A	9.62A	7.69A	9.69A	7.73A	9.76A	7.77A
Component Efficiency (%)	19.88%		20.11%		20.35%		20.58%		20.81%	

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	-0.360%/°C
Temperature Coefficient of Open Circuit Voltage	-0.290%/°C
Short-circuit Current Temperature Coefficient	+0.050%/°C



Temperature Characteristics

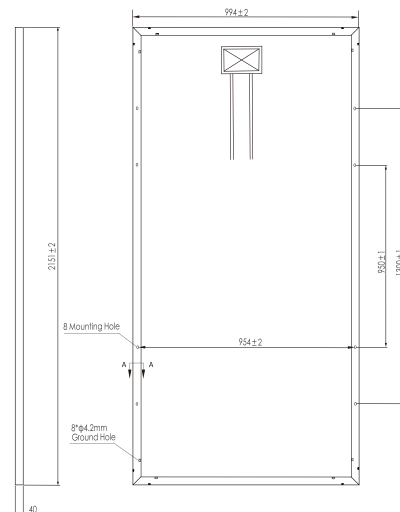
Working Temperature	-40°C to~+85°C
Maximum System Voltage	DC 1000/1500V (IEC)
Maximum Fuse Rating	20A
Power Tolerance	0/+5W



Mechanical Data

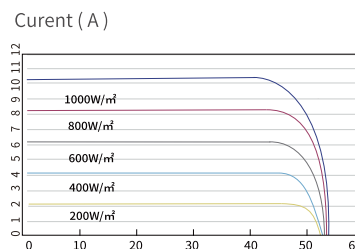
Cell Type	158.75mm Mono
Cell Orientation	80 (1/3cut)
Module Dimension	2125*994*40mm
Weight	24kg
Front	3.2mm high transmittance, reinforced glass
Aluminum Frame	Anodized Aluminum Alloy
Junction Box	IP68 (3 Bypass Diodes)
	4.0mm ²
Connecting Cable	Cable length
	300mm
Plug Connector	MC4 compatible connector
Maximum Mechanical Load	Front 5400Pa/Back 2400Pa

Module Dimensions(mm)



I-V Curve

Current-Voltage Curve (445W)



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.