



## Mars M5

EL-430~455M5-60H

PERC Technology

Mono Crystalline PV Modules

120

CELLS



Micro-crack  
Free



PID  
Resistant



Salt Mist and Ammonia  
Corrosion Resistant



German  
Engineering



Tier 1  
Choice  
of Materials

### GERMAN QUALITY

East Lux solar panels are made from top grade materials, automated robotic lines, German technology and standards, making the quality difference.

### PERFORMANCE& INVESTMENT GUARANTEE

East Lux assures high investment, security and warranty claims by providing linear performance guarantee of 25 years and 12 years of product warranty.

### PLUS SORTING

0~+5W positive sorting system to assure high output

### STABLE& STRONG

Capable to bear heavy snow loads up to 5400pa and wind loads up to 2400pa

## Reliable Quality

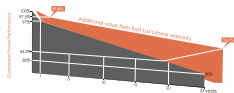
- IEC61215, IEC61730(2016), IEC TS 62804-1-1:2020 (Anti PID)
- ISO 9001:2008 Quality management systems
- ISO 14001:2004 Environmental management systems
- BS OHSAS 18001:2007 Occupational health and safety management system
- Positive power tolerance: 0~+5W
- 100% Triple EL inspection ensure free of defects.



## Linear Performance Warranty

12 years product warranty

25 years linear power warranty



■ German  
■ Quality  
■ Guarantee

■ Linear performance warranty  
■ Standard performance warranty

# SPECIFICATIONS

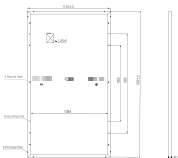
Module Type	430M5-60H		435M5-60H		440M5-60H		445M5-60H		450M5-60H		455M5-60H	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Peak Power (Pmax)	430W	327W	435W	330W	440W	333W	445W	336W	450W	340W	455W	343W
Open Circuit Voltage (Voc)	40.65V	38.15V	40.80V	38.28V	40.95V	38.40V	41.10V	38.53V	41.25V	38.65V	41.40V	38.77V
Short circuit Current (Isc)	13.59A	10.91A	13.67A	10.95A	13.74A	10.99A	13.82A	11.03A	13.89A	11.08	13.97A	11.12A
Peak Power Voltage (Vmpp)	33.89V	31.89V	34.09V	32.05V	34.28V	32.19V	34.48V	32.35V	34.67V	32.51V	34.87V	32.67V
Peak Power Current (Impp)	12.69A	10.26A	12.77A	10.30A	12.84A	10.35A	12.91A	10.40A	12.98A	10.46A	13.05A	10.51A
Component Efficiency (%)	19.9%		20.1%		20.3%		20.6%		20.8%		21.0%	

STC(Standard Testing Conditions): Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, AM1.5  
 NMOT(Nominal Module Operating Temperature): Irradiance 800W/m<sup>2</sup>, Ambient Temperature 20°C, Wind Speed 1m/s

## Temperature Characteristics

Standard Working Temperature (NMOT)	45±2°C
Peak Power Temperature Coefficient	-0.350%/°C
Temperature Coefficient of Open Circuit Voltage	-0.276%/°C
Short-circuit Current Temperature Coefficient	+0.046%/°C
Working Temperature	-40°C to +85°C
Maximum System Voltage	DC 1500V (IEC)
Maximum Fuse Rating	20A
Power Tolerance	0→+5W

## Module Dimensions(mm)



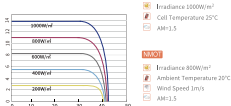
Specifications in this datasheet are subject to change without prior notice.

## Mechanical Data

Cell Type	182*91mm Mono
Cell Orientation	120 (6x20)
Module Dimension	1909*1134*35mm
Weight	23.9kg±3%
Front	3.2mm Tempered Glass
Aluminum Frame	Anodized Aluminum Alloy
Junction Box	IP68 (3 Bypass Diodes) 4.0mm <sup>2</sup>
Connecting Cable	Cable length 300mm (+)/400mm (-)
Plug Connector	MC4 compatible connector
Maximum Mechanical Load	Front 5400Pa

## I-V Curve

Current-Voltage Curve (450W)  
 Current (A)



## Packing Configuration

Modules per Pallet: 31pcs  
 Modules per 40' HQ Container: 744pcs  
 Modules per 20' GP Container: 155pcs