

# Mars M5

EL-530~550M5-72H

PERC Technology

Mono Crystalline PV Modules



144

CELLS



Micro-crack  
Free



PID  
Resistant



Salt Mist and Ammonia  
Corrosion Resistant



German  
Engineering

TIER 1

MOORE

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 GURANTEE

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

## 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



## PLUS SORTING

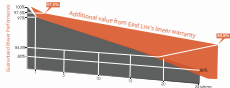
0~+5W positive sorting system to assure high output.

## STABLE& STRONG

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

## Linear Performance Warranty

12 years product warranty  
25 years linear power warranty



German  
Quality  
Guarantee

Linear performance warranty  
Standard performance warranty

# SPECIFICATIONS

## Module Type

	EL-530M5-72H		EL-535M5-72H		EL-540M5-72H		EL-545M5-72H		EL-550M5-72H	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Peak Power (Pmax)	530W	400W	535W	404W	540W	407W	545W	411W	550W	414W
Open Circuit Voltage (Voc)	49.15V	46.13V	49.35V	46.26V	49.55V	46.38V	49.75V	46.50V	49.95V	46.63V
Short circuit Current (Isc)	13.74A	10.99A	13.82A	11.03A	13.89A	11.08A	13.97A	11.12A	14.05A	11.17A
Peak Power Voltage (Vmpp)	41.27V	38.55V	41.45V	38.76V	41.62V	38.95V	41.80V	39.16V	41.97V	39.21V
Peak Power Current (mpp)	12.85A	10.38A	12.91A	10.43A	12.98A	10.46A	13.05A	10.50A	13.11A	10.53A
Component Efficiency (%)	20.70%		20.90%		21.10%		21.30%		21.50%	

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	DC1500V(IEC)
Maximum Fuse Rating	25A
Power Tolerance	0~±5W

## Module Dimensions(mm)



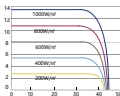
Specifications in this datasheet are subject to change without prior notice.

## Mechanical Data

Cell Type	182x61mm Mono
Cell Orientation	144(6x24)
Module Dimension	2279x1134x35mm
Weight	28.5kg±3%
Front	3.2mm Tempered Glass
Frame	Anodized Aluminum Alloy
Junction Box	IP68 (3 Bypass Diodes) 4.6mm <sup>2</sup>
Connecting Cable	300mm (+)/300mm (-) Length can be customized
Plug Connector	MC4 compatible connector
Maximum Mechanical Load	Front 5400Pa/Back 2400Pa

## I-V Curve

Current-Voltage Curve (540W)  
Current (A)



### STC

- Irradiance 1000W/m<sup>2</sup>
- Cell Temperature 25°C
- AM-1.5

### NMOT

- Irradiance 800W/m<sup>2</sup>
- Ambient Temperature 20°C
- Wind Speed 1m/s
- AM-1.5

## Packing

Modules per Pallet: 31pcs

## Configuration

Modules per 40' HQ Container: 620pcs