

Mars M5

EL-525~545M5-72H

PERC Technology

Mono Crystalline PV Modules

144

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 GURANTEEE

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

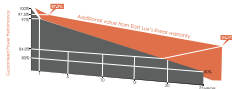
0~+5W positive sorting system to assure high output

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

Module Type

	525M5-72H		530M5-72H		535M5-72H		540M5-72H		545M5-72H	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Peak Power (Pmax)	525W	397W	530W	401W	535W	405W	540W	409W	545W	413W
Open Circuit Voltage (Voc)	49.59V	46.92V	49.74V	47.16V	49.89V	47.40V	50.04V	47.63V	50.18V	47.87V
Short circuit Current (Isc)	13.55A	10.87A	13.62A	10.91A	13.69A	10.95A	13.76A	10.99A	13.83A	11.03A
Peak Power Voltage (Vmpp)	41.47V	38.73V	41.63V	38.97V	41.80V	39.21V	41.96V	39.44V	42.12V	39.67V
Peak Power Current (Impp)	12.66A	10.25A	12.73A	10.29A	12.80A	10.33A	12.87A	10.37A	12.94A	10.41A
Component Efficiency (%)	20.24%		20.44%		20.63%		20.82%		21.01%	

STC(Standard Testing Conditions): Irradiance 1000W/m², Cell Temperature 25°C, AM1.5NMOT(Nominal Module Operating Temperature): Irradiance 800W/m², Ambient Temperature 20°C, Wind Speed 1m/s

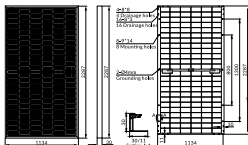
Bifacial Output-Rear Side Power Gain

5%	Peak Power (Pmax)	551W	557W	562W	567W	572W
	Component Efficiency (%)	21.26%	21.46%	21.66%	21.86%	22.07%
10%	Peak Power (Pmax)	604W	610W	615W	621W	627W
	Component Efficiency (%)	23.28%	23.50%	23.72%	23.94%	24.17%
25%	Peak Power (Pmax)	656W	663W	669W	675W	681W
	Component Efficiency (%)	25.30%	25.55%	25.79%	26.03%	26.27%

Temperature Characteristics

Standard Working Temperature (NMOT)	45 ± 2°C
Peak Power Temperature Coefficient	-0.360%/°C
Temperature Coefficient of Open Circuit Voltage	-0.280%/°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	25A
Power Tolerance	0 ~ ±5W

Module Dimensions(mm)

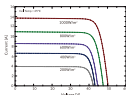


Specifications in this datasheet are subject to change without prior notice.

Mechanical Data

Cell Type	182*91mm Mono
Cell Orientation	144 (6x24)
Module Dimension	2287 x 1134 x 30mm
Weight	31.5kg
Front	2.0mm coated semi-tempered glass
Aluminum Frame	2.0mm semi-tempered glass
Junction Box	4.0mm ³ , IP68 (3 Bypass Diodes)
Connecting Cable	Cable length, 300mm (+)/400mm (-)
Plug Connector	MC4 compatible connector
Maximum Mechanical Load	Front 5400Pa

I-V Curve

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

STC

- Irradiance 1000W/m²
- Cell Temperature 25°C
- AM=1.5

NMOT

- Irradiance 800W/m²
- Ambient Temperature 20°C
- Wind Speed 1m/s
- AM=1.5

Packing Configuration

Modules per Pallet: 31pcs
 Modules per 40' HQ Container: 620pcs
 Modules per 20' GP Container: 185pcs