



**CATÁLOGO  
PANELES SOLARES**

***SOLAR PANELS  
CATALOGUE***

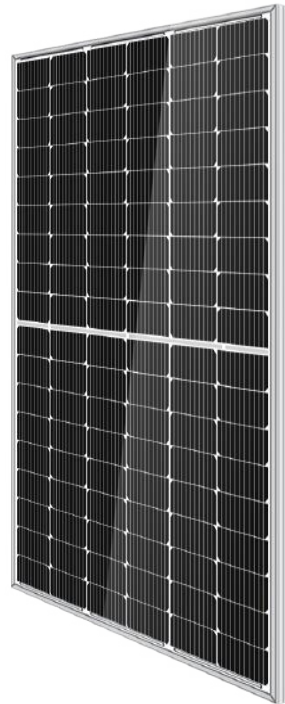
**2024**  
V.1



**EastechSolar**  
CLEAN TECHNOLOGIES

# JUST SOLAR MONO MODULE 410W

JST-M10-M-54-MH-  
(390-410)W



**High conversion efficiency**  
High module efficiency to guarantee power output.



**0 to +5W positive tolerance**  
Detailed information in Electrical Specifications.



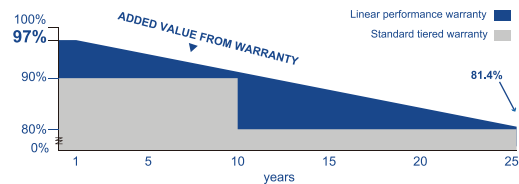
**Self-cleaning glass**  
Coating glass for self-cleaning, reduce surface dust.



**48-hour response service**



**Outstanding low irradiation performance**  
Excellent module efficiency even in the weak light conditions, such as morning or cloudy.



**Excellent loading capability**  
2400Pa wind loads, 5400Pa snow loads.



**25-year performance warranty**

**10-year warranty on materials and workmanship**

IEC 61215 Ed.2  
IEC 61730  
UL 1703



# JUST Solar

## ELECTRICAL DATA

Model Type(JST-M10-M-54-MH-***W)	390	395	400	405	<b>410</b>
Peak Power (Pmax)	390W	395W	400W	405W	<b>410W</b>
Module Efficiency	19.95%	20.20%	20.46%	20.72%	<b>20.97%</b>
Maximum Power Voltage (Vmp)	30.42V	30.62V	30.92V	31.12V	<b>31.32V</b>
Maximum Power Current (Imp)	12.82A	12.88A	12.94A	13.00A	<b>13.06A</b>
Open Circuit Voltage (Voc)	36.54V	36.74V	36.94V	37.14V	<b>37.34V</b>
Short Circuit Current (Isc)	13.50A	13.55A	13.60A	13.65A	<b>13.70A</b>
Power Tolerance			0 to +5W		
Maximum System Voltage Nominal			1500V		
Operating Cell Temperature Maximum			41±3°C		
Series Fuse Rating			25A		

## MECHANICAL DATA

Cell Type	182mm, Mono
Number of Cells	108(9×6×2)
Weight	21.5kg
Dimension	1724×1134×30mm
Max Load	5400 Pascals
Junction Box	IP68 rated
Connector	MC4 Compatible
Wire Type	PV Wire

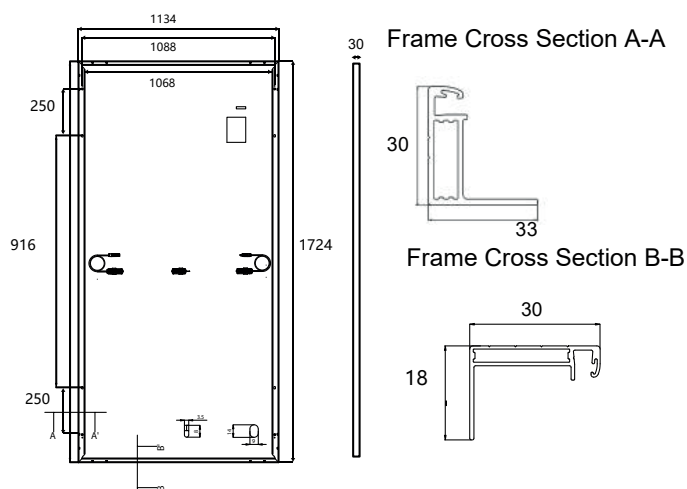
## TEMPERATURE CHARACTERISTICS

Temp. Coeff. of Isc (TK Isc)	+0.05% /°C
Temp. Coeff. of Voc (TK Voc)	-0.28% /°C
Temp. Coeff. of Pmax (TK Pmax)	-0.36% /°C

## PACKING MANNER

Container	40' HQ
Pieces per Pallet	36
Pieces per Container	936

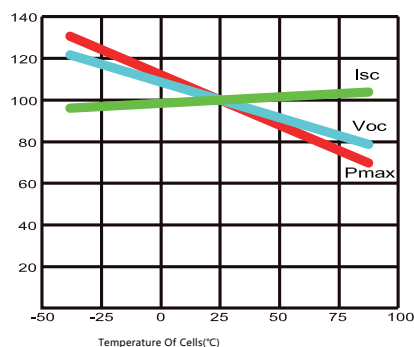
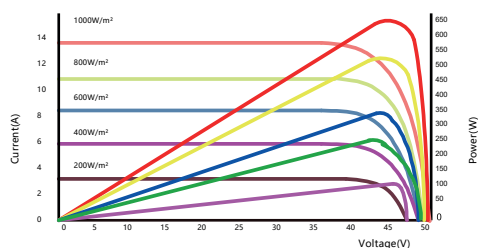
## PHYSICAL CHARACTERISTICS



Note: the specifications are obtained under the Standard Test Conditions (STCs): 1000W/m<sup>2</sup> solar irradiance, 1.5 Air Mass, and cell temperature of 25°C. The NOCT is obtained under the Test Conditions: 800W/m<sup>2</sup>, 20°C ambient temperature, 1m/s wind speed, AM 1.5 spectrum.  
The actual transactions will be subject to the contracts. This parameters isfor reference only and it is not a part of the contracts. The specifications are subject to change without prior notice.

## ELECTRICAL CHARACTERISTICS

### JST-M10-M-54-MH-390W

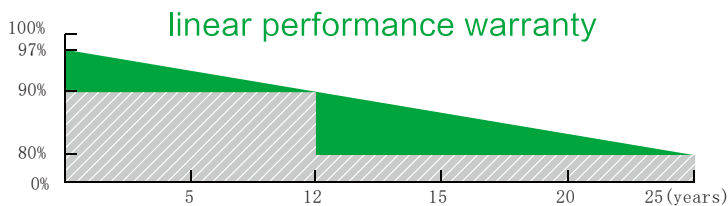
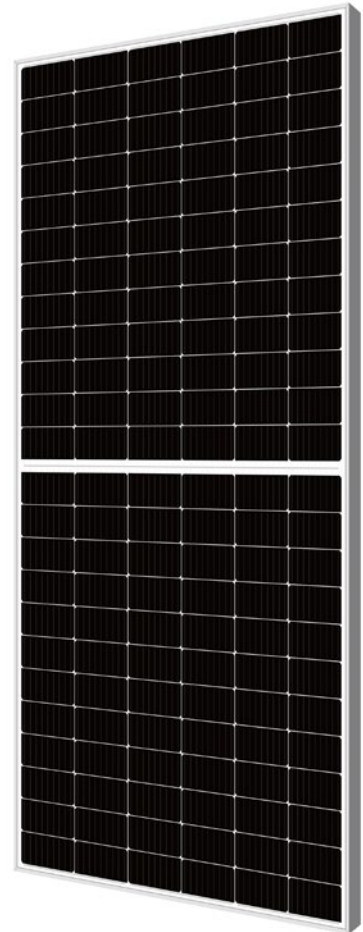
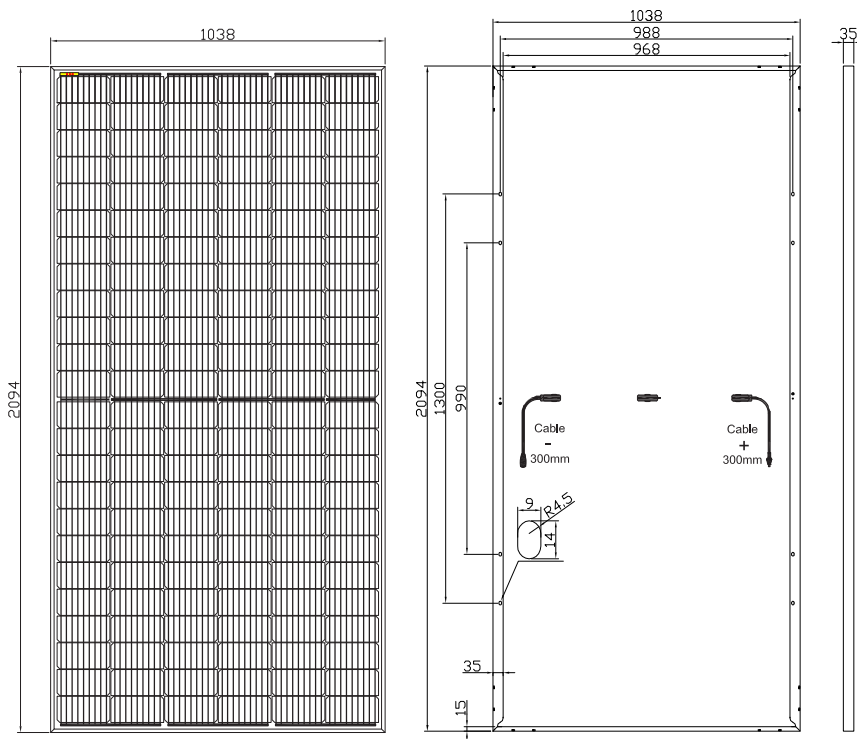


# LF460M8-72H

- LF440M8-72H
- LF445M8-72H
- LF450M8-72H
- LF455M8-72H



Ningbo Lefeng New Energy Co.,Ltd



**12** Years  
Material&Craft  
Quality  
assurance

**25** Years  
80% output  
Power  
guarantee



ISO9001  
ISO14001  
OHSAS18001



High Module Efficiency



Mechanical Load  
Capability up to 5400 Pa



Salt Mist Corrosion Protect  
Ammonia Resistance



Potential Induced  
Degradation Free

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# LF460M8-72H

- LF440M8-72H
- LF445M8-72H
- LF450M8-72H
- LF455M8-72H



Ningbo Lefeng New Energy Co.,Ltd

## Electrical Characteristics

	TYPE	LF 440M8-72H	LF 445M8-72H	LF 450M8-72H	LF 455M8-72H	LF 460M8-72H
	POWER OUTPUT	440	445	450	455	460
	MAX POWER TOLERANCE	0-5W	0-5W	0-5W	0-5W	0-5W
STC	MODULE EFFICIENCY (%)	20.2	20.5	20.7	20.9	21.2
1000W/M <sup>2</sup>	VOLTAGE MPP V <sub>mpp</sub>	41.08	41.28	41.47	41.70	41.91
Module	CURRENT MPP I <sub>mpp</sub> (A)	10.71	10.78	10.85	10.91	10.98
Temperature	VOLTAGE OPEN CIRCUIT V <sub>oc</sub>	49.05	49.28	49.51	49.75	49.99
25°C	SHORT CIRCUIT CURRENT I <sub>sc</sub> (A)	11.41	11.48	11.56	11.62	11.69
A.M.1.5	POWER OUTPUT	338.02	341.86	345.70	349.54	353.38
	VOLTAGE MPP V <sub>mpp</sub> (V)	37.45	37.63	37.81	37.99	38.19
NOCT	CURRENT MPP I <sub>mpp</sub> (A)	9.03	9.09	9.14	9.20	9.25
800W/M <sup>2</sup>	VOLTAGE OPEN CIRCUIT V <sub>oc</sub> (V)	45.29	45.50	45.73	45.96	46.19
Environment	SHORT CIRCUIT CURRENT I <sub>sc</sub> (A)	9.71	9.77	9.83	9.89	9.94
Temperature						
20°C						
A.M.1.5						
	TEMPERATURE COEFFICIENTS I <sub>sc</sub> (% / °C)			0.046		
	TEMPERATURE COEFFICIENTS V <sub>oc</sub> (% / °C)			-0.276		
	TEMPERATURE COEFFICIENTS P <sub>mpp</sub> (% / °C)			-0.381		
	NOCT (°C)			45±2°C		

## Mechanical Data

DIMENSIONS OF MODULE	2094*1038*35mm
WEIGHT(Kg)	24.0
CABLE	4mm <sup>2</sup>
GLASS	High transmission glass 3.2mm
JUNCTION BOX	IP68, 3 Bypass-Diode, 300mm in length
TYPE OF CONNECTOR	Compatible with MC 4 plug

## Working Conditions

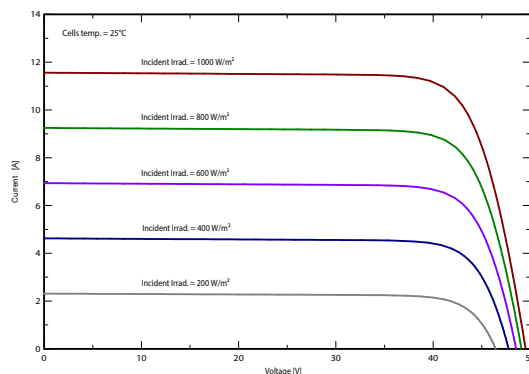
MAX SYSTEM VOLTAGE (VDC)	1500V
SERIES FUSE RATING	20A
MECHANICAL LOAD	5400Pa
OPERATING TEMPERATURE (°C)	-40~+85
APPLICATION CLASS	A

## Packaging Configuration

Loading Capacity	155 pcs/20GP
	682 pcs/40HC

Contact Information

## I-V CURVES



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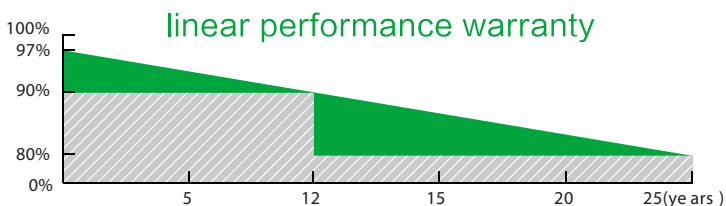
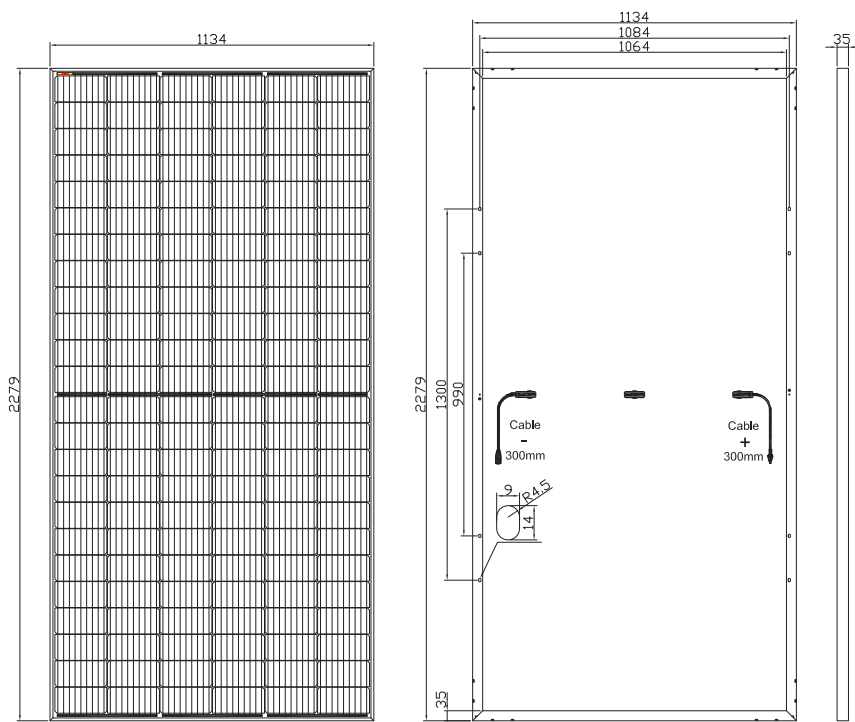


# LF 550M10-72H

- LF535M10-72H
- LF540M10-72H
- LF545M10-72H
- LF555M10-72H



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**12** Years  
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Quality  
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**25** Years  
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ISO9001  
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- LF545M10-72H
- LF555M10-72H



Ningbo Lefeng New Energy Co.,Ltd

## Electrical Characteristics

	TYPE	LF 535M10-72H	LF 540M10-72H	LF 545M10-72H	LF 550M10-72H	LF 555M10-72H
STC 1000W/M <sup>2</sup> Module Temperature 25°C A.M.1.5	POWER OUTPUT	535	540	545	550	555
	MAX POWER TOLERANCE	0-5W	0-5W	0-5W	0-5W	0-5W
	MODULE EFFICIENCY (%)	20.7	20.9	21.1	21.3	21.5
	VOLTAGE MPP Vmpp	41.51	41.7	41.92	42.11	42.31
	CURRENT MPP Impp (A)	12.89	12.95	13.00	13.06	13.12
	VOLTAGE OPEN CIRCUIT Voc	49.87	49.95	50.04	50.28	50.53
NOCT 800W/M <sup>2</sup> Environment Temperature 20°C A.M.1.5	SHORT CIRCUIT CURRENT Isc (A)	13.68	13.74	13.80	13.86	13.93
	POWER OUTPUT	411.01	414.85	418.69	422.53	426.37
	VOLTAGE MPP Vmpp (V)	37.83	38.01	38.21	38.39	38.57
	CURRENT MPP Impp (A)	10.86	10.91	10.96	11.01	11.06
	VOLTAGE OPEN CIRCUIT Voc (V)	46.04	46.12	46.2	46.42	46.65
	SHORT CIRCUIT CURRENT Isc (A)	11.63	11.68	11.73	11.78	11.83
TEMPERATURE COEFFICIENTS Isc (% / °C)				0.046		
TEMPERATURE COEFFICIENTS Voc (% / °C)				-0.266		
TEMPERATURE COEFFICIENTS Pmpp (% / °C)				-0.354		
NOCT (°C)				45±2°C		

## Mechanical Data

DIMENSIONS OF MODULE	2279*1134*35mm
WEIGHT (Kg)	28.5
CABLE	4mm <sup>2</sup>
GLASS	High transmission glass 3.2mm
JUNCTION BOX	IP68, 3 Bypass-Diode, 300mm in length
TYPE OF CONNECTOR	Compatible with MC 4 plug

## Working Conditions

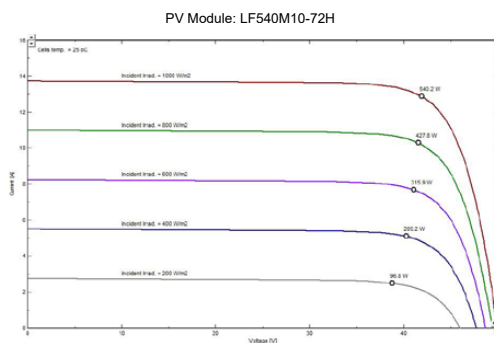
MAX SYSTEM VOLTAGE (VDC)	1500V
SERIES FUSE RATING	25A
MECHANICAL LOAD	≥ 5400Pa
OPERATING TEMPERATURE (°C)	-40 ~ +85
APPLICATION CLASS	A

## Packaging Configuration

Loading Capacity	155 pcs/20GP
	620 pcs/40HC

## Contact Information

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## CONDICIONES DE GARANTÍA PANELES SOLARES ON GRID 2024

En este caso, la garantía ofrecida será la misma que ofrezca el fabricante (Amerisolar, JustSolar, Ecodelta LEFN, etc.), que vendrá siempre indicada en la ficha de los datos técnicos y características del panel solar fotovoltaico.

## WARRANTY CONDITIONS SOLAR PANELS ON GRID 2024

In this case, the guarantee offered will be the same as that offered by the manufacturer (Amerisolar, JustSolar, Ecodelta LEFN, etc.), which will always be indicated in the technical data sheet and characteristics of the photovoltaic solar panel.





## Eastech Electric SAU

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