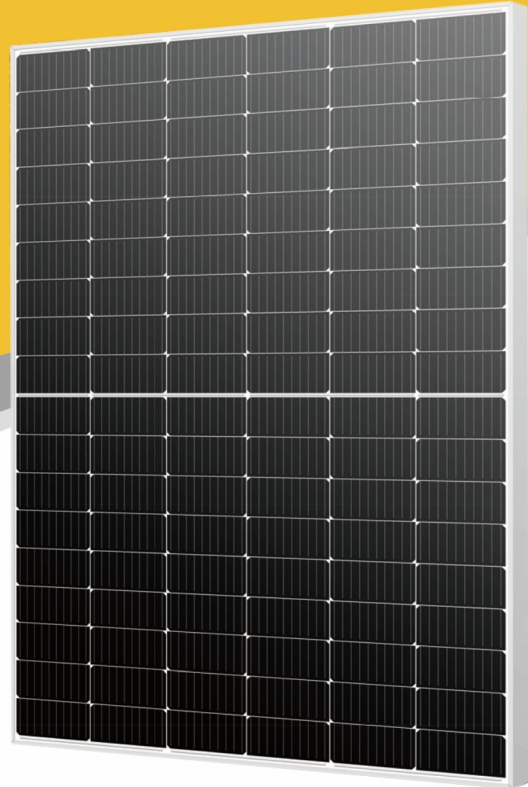


JM Solar

410W MBB

Monocrystalline Module Half-cell Module JM 390~410R54

12-Year Warranty for Materials and Processing;
25-Year Warranty for Extra Linear Power Output



- Higher Output Power
- Module Efficiency Up To 21.0%
- Lower Temperature Coefficient



- Lower LCOE (Levelized Cost Of Energy)
- High Power Output Lead To Lower BOS Cost



- Salt Mist Corrosion Protect
- Ammonia Resistance



- Excellent Potential Induced Degradation Resistance



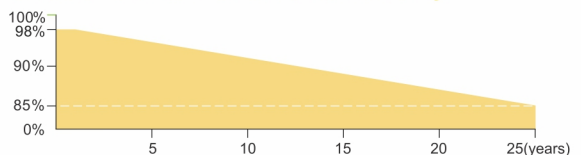
- Excellent Wind Load 2400Pa & Snow Load 5400Pa Under Certain Installation Method



*Specifications Subject To Technical Changes And Tests.
JM Solar Reserves The Right Of Interpretation.



JM Solar's Linear Performance Warranty



Complete System and Product Certifications

IEC 61215, IEC 61730, ISO
ISO 9001: 2008:ISO Quality Management System
ISO 14001: 2004:ISO Environment Management System
OHSAS 18001: 2007 Occupational Health and Safety

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Web: www.jmsolarenergy.com

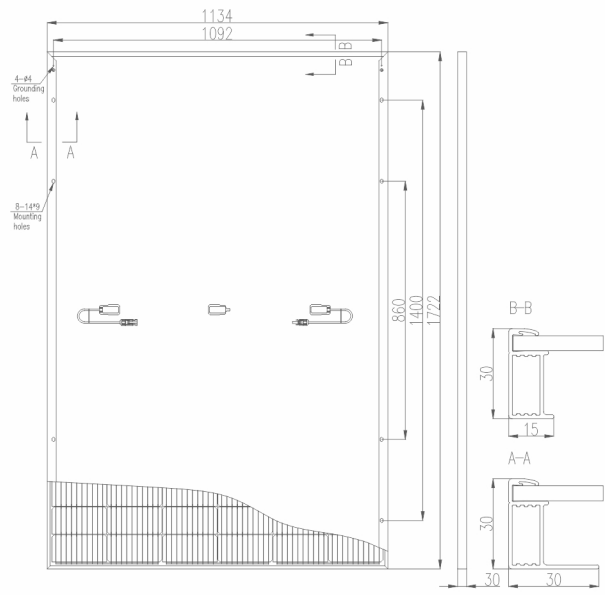
Tel.: +86-379-61108866, +86 138 3847 6080

Electrical Data	390	395	400	405	410
Maximum Power P _{MAX} (WP)	390	395	400	405	410
Power Tolerance P _{MAX} (%)	0-5	0-5	0-5	0-5	0-5
Maximum Power Voltage V _{MP} (V)	30.59	30.76	30.98	31.23	31.44
Maximum Power Current I _{MP} (A)	12.75	12.84	12.91	12.97	13.04
Open Circuit Voltage V _{OC} (V)	36.67	36.91	37.10	37.33	37.58
Short Circuit Current I _{SC} (A)	13.63	13.71	13.80	13.87	13.94
Module efficiency η m(%)	20.0	20.2	20.5	20.7	21.0

STC (Standard Testing Conditions): Irradiance 1000W/m², Cell Temperature 25 °C, Spectra at AM1.5

Mechanical Date Product Drawings

Solar Cells	Mono-crystalline
Cell Orientation	108 cells (6×18)
Module dimensions	1722×1134×30mm
Weight	21.5Kg
Glass	High transmission glass 3.2mm
Frame	Anodized aluminium alloy
J-Box	IP 68, 3 bypass diodes
Cables	4mm ² /300mm or Customized Length
Connector	MC4 compatible



Electrical Characteristics(NMOT*)	390	395	400	405	410
Power Output(Wp)	299.61	303.45	307.29	311.13	314.98
Voltage Mpp-V _{mpp} (V)	27.88	28.04	28.24	28.46	28.66
Current Mpp-I _{mp} (A)	10.75	10.82	10.88	10.93	10.99
Voltage Open Circuit-V _{oc} (V)	33.86	34.08	34.25	34.47	34.70
Short Circuit Current-I _{sc} (A)	11.59	11.66	11.73	11.79	11.85

*NMOT:Irradiance 800 W/m², Ambient Temperature 20°C, Air Mass AM1.5, Wind Speed 1m/s

Shipping Method 40HQ

Qty/Box	36
Number of Boxes	26
Total	936

Temperature Ratings	Mechanical Properties		
Temperature Coefficient of P _{MAX}	-0.350%/°C	Frontal mechanical load (anti-snow, wind)	5400pa
Temperature Coefficient of V _{OC}	-0.270%/°C	Back mechanical load (wind resistance)	2400pa
Temperature Coefficient of I _{SC}	+0.048%/°C	Hailstone Test	25mm Hailstone at the speed of 23m/s

Maximum Ratings	Quality Parameters	
Maximum system voltage	1500V DC	12 year product workmanship warranty
Max Series Fuse Ratings	25A	25 year linear power warranty (Refer to the Product Warranty for details)

Curve

