

Mono

JMD 410-550W HALF CUT Series

Introduction

MONO module Assembled with PERC cells, the configuration of the modules offers the advantages of higher power output, cells temperature-dependent performance, reduced shading effect on the energy generation, lower risk of hot spot, as well as enhanced tolerance for mechanical loading.



Higher Durability

The multi-busbar design can decrease the risk of the cell micro-cracks and fingers broken.



High Power Density

High conversion efficiency and more power output per square meter, by lower series resistance and improved light harvesting.



PID Resistant

Tested in accordance to the standard IEC 62804, our PV modules have demonstrated resistance against PID (Potential Induced Degradation), which translates to security for your investment.



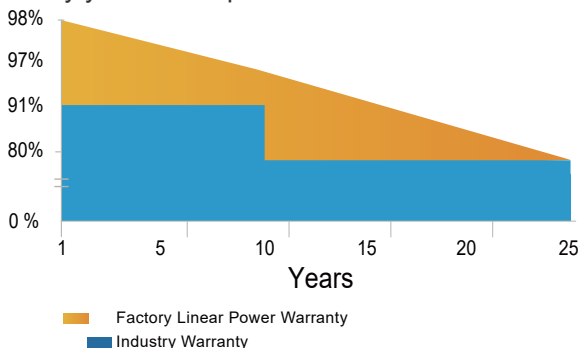
Bigger Cells with better performance

A slight increase of the size of our cells, Boosts the performance of the newest modules by six percent on average.

First-class Quality Assurance

- 10-year warranty for material and technology
- 25-year linear power output warranty

Every year 0.55% power attenuation

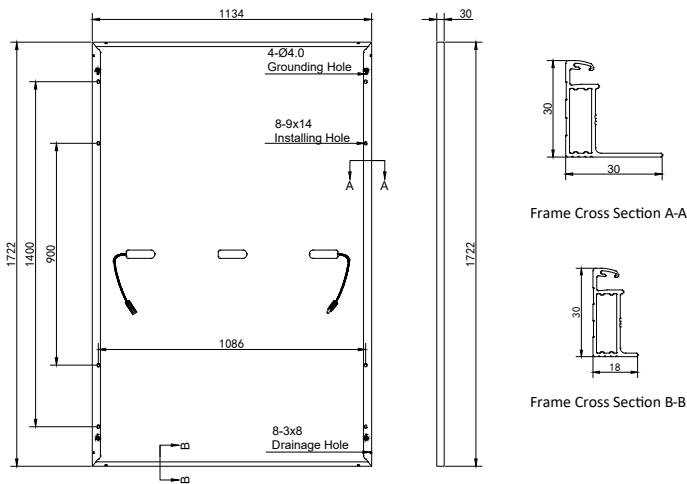


Comprehensive Certificates

- IEC61215, IEC61730
- ISO9001:2015 Quality management systems
- ISO14001:2015 Environmental management systems
- ISO45001:2018 Occupational health and safety management systems



MECHANICAL DIAGRAMS



SPECIFICATIONS

Weight	21.5kg
Dimensions	1722mm*1134mm*30mm
Cell Amount	54*2 pcs
Maximum System Voltage	1500V
Junction Box	IP68
Frame	Aluminum Alloy
Cable	4mm ² /300mm
Connector	MC4 Compatible
Application Level	Class A

ELECTRICAL PARAMETERS AT STC

Module Type	JMD400P-108M	JMD405P-108M	JMD410P-108M	JMD415P-108M
Maximum Power (Pmax/W)	400	405	410	415
Open Circuit Voltage(Voc/V)	37.06	37.17	37.28	37.39
Short Circuit Current(Isc/A)	13.78	13.86	13.94	14.02
Maximum Power Voltage(Vmp/V)	30.65	30.80	30.95	31.10
Maximum Power Current(Imp/A)	13.06	13.15	13.25	13.35
Module Efficiency(%)	20.50	20.70	21.00	21.30

* Under Standard Test Conditions (STC) of irradiance of 1000 W/m², spectrum AM 1.5 and cell temperature of 25°C.

ELECTRICAL PARAMETERS AT NOCT

Maximum Power (Pmax/W)	297.6	301.3	305.0	308.8
Open Circuit Voltage(Voc/V)	34.70	34.80	34.90	35.00
Short Circuit Current(Isc/A)	11.13	11.20	11.26	11.33
Maximum Power Voltage(Vmp/V)	28.50	28.60	28.80	28.90
Maximum Power Current(Imp/A)	10.45	10.52	10.60	10.68

* Under Nominal Module Operating Temperature (NOCT), irradiance of 800 W/m², spectrum AM 1.5, ambient temperature 20°C, wind speed 1 m/s.

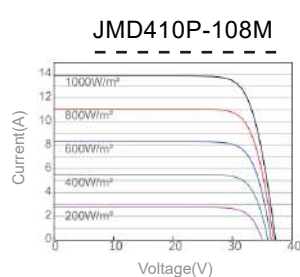
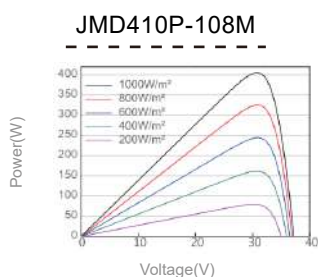
TEMPERATURE CHARACTERISTICS

NOCT	45±2°C	Temp Coefficient of Isc	+0.046%/°C
Temp Coefficient of Voc	-0.275%/°C	Temp Coefficient of Pmax	-0.350%/°C

PACKING CONFIGURATION

Modules/Pallet	36 Pieces	Modules/40'Container	936 Pieces
Packing Description	26Pallets, Total=(36+36)x13=936 Pieces		

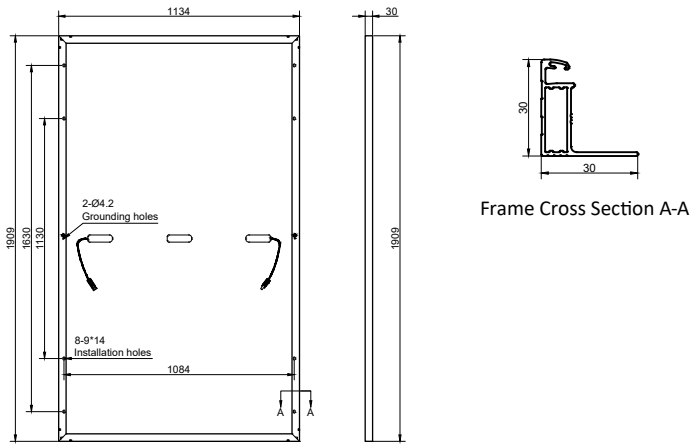
CHARACTERISTICS



MAXIMUM RATING

Output Tolerance	0~+5W
Operating Temperature	-40°C~+85°C
Wind Load/Snow Load	2400pa/5400pa
Fuse Current	20A

MECHANICAL DIAGRAMS



SPECIFICATIONS

Weight	23kg
Dimensions	1909mm*1134mm*30mm
Cell Amount	60*2 pcs
Maximum System Voltage	1500V
Junction Box	IP68
Frame	Aluminum Alloy
Cable	4mm ² /300mm
Connector	MC4 Compatible
Application Level	Class A

ELECTRICAL PARAMETERS AT STC

Module Type	JMD445P-120M	JMD450P-120M	JMD455P-120M	JMD460P-120M
Maximum Power (Pmax/W)	445	450	455	460
Open Circuit Voltage(Voc/V)	41.10	41.25	41.40	41.55
Short Circuit Current(Isc/A)	13.82	13.89	13.97	14.05
Maximum Power Voltage(Vmp/V)	34.48	34.67	34.87	35.06
Maximum Power Current(Imp/A)	12.91	12.98	13.05	13.13
Module Efficiency(%)	20.60	20.80	21.00	21.20

* Under Standard Test Conditions (STC) of irradiance of 1000 W/m², spectrum AM 1.5 and cell temperature of 25°C.

ELECTRICAL PARAMETERS AT NOCT

Maximum Power (Pmax/W)	336.0	340.0	340.0	343.0
Open Circuit Voltage(Voc/V)	38.53	38.65	38.65	38.77
Short Circuit Current(Isc/A)	11.03	11.08	11.08	11.12
Maximum Power Voltage(Vmp/V)	32.35	32.51	32.51	32.67
Maximum Power Current(Imp/A)	10.40	10.46	10.46	10.51

* Under Nominal Module Operating Temperature (NOCT), irradiance of 800 W/m², spectrum AM 1.5, ambient temperature 20°C, wind speed 1 m/s.

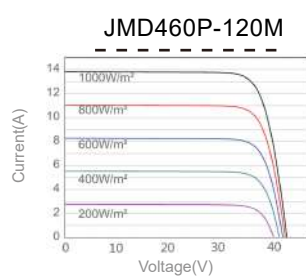
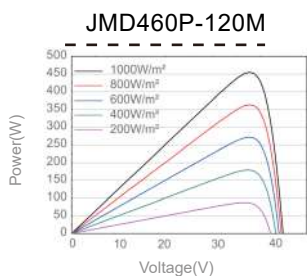
TEMPERATURE CHARACTERISTICS

NOCT	45±2°C	Temp Coefficient of Isc	+0.046%/°C
Temp Coefficient of Voc	-0.275%/°C	Temp Coefficient of Pmax	-0.350%/°C

PACKING CONFIGURATION

Modules/Pallet	36 Pieces	Modules/40'Container	864 Pieces
Packing Description	24Pallets, Total=(36+36)x12=864 Pieces		

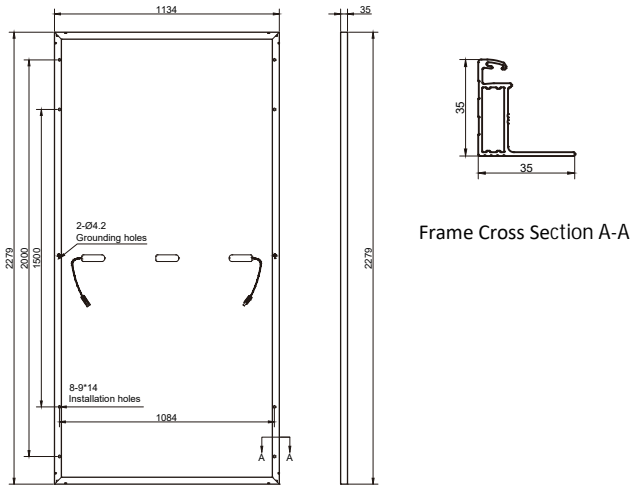
CHARACTERISTICS



MAXIMUM RATING

Output Tolerance	0~+5W
Operating Temperature	-40°C~+85°C
Wind Load/Snow Load	2400pa/5400pa
Fuse Current	20A

MECHANICAL DIAGRAMS



SPECIFICATIONS

Weight	27.3kg
Dimensions	2279mm*1134mm*35mm
Cell Amount	72*2 pcs
Maximum System Voltage	1500V
Junction Box	IP68
Frame	Aluminum Alloy
Cable	4mm ² /300mm
Connector	MC4 Compatible
Application Level	Class A

ELECTRICAL PARAMETERS AT STC

Module Type	JMD535P-144M	JMD540P-144M	JMD545P-144M	JMD550P-144M
Maximum Power (Pmax/W)	535	540	545	550
Open Circuit Voltage(Voc/V)	49.35	49.55	49.75	49.95
Short Circuit Current(Isc/A)	13.82	13.89	13.97	14.05
Maximum Power Voltage(Vmp/V)	41.45	41.62	41.80	41.97
Maximum Power Current(Imp/A)	12.91	12.98	13.05	13.11
Module Efficiency(%)	20.70	20.90	21.10	21.30

* Under Standard Test Conditions (STC) of irradiance of 1000 W/m², spectrum AM 1.5 and cell temperature of 25°C.

ELECTRICAL PARAMETERS AT NOCT

Maximum Power (Pmax/W)	404.0	407.0	411.0	414.0
Open Circuit Voltage(Voc/V)	46.26	46.38	46.50	46.63
Short Circuit Current(Isc/A)	11.03	11.08	11.12	11.17
Maximum Power Voltage(Vmp/V)	38.76	38.95	39.16	39.31
Maximum Power Current(Imp/A)	10.43	10.46	10.50	10.53

* Under Nominal Module Operating Temperature (NOCT), irradiance of 800 W/m², spectrum AM 1.5, ambient temperature 20°C, wind speed 1 m/s.

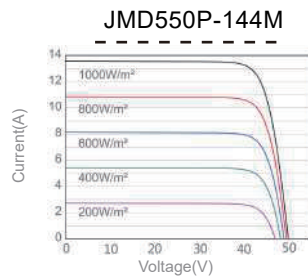
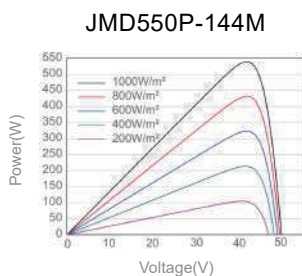
TEMPERATURE CHARACTERISTICS

NOCT	45±2°C	Temp Coefficient of Isc	+0.046%/°C
Temp Coefficient of Voc	-0.275%/°C	Temp Coefficient of Pmax	-0.350%/°C

PACKING CONFIGURATION

Modules/Pallet	31 Pieces	Modules/40'Container	620 Pieces
Packing Description	20 Pallets, Total=(31+31)x10=620 Pieces		

CHARACTERISTICS



MAXIMUM RATING

Output Tolerance	0~+5W
Operating Temperature	-40°C~+85°C
Wind Load/Snow Load	2400pa/5400pa
Fuse Current	20A