



**Mono**

# 400-600W 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.



### 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.



### High Power Density

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

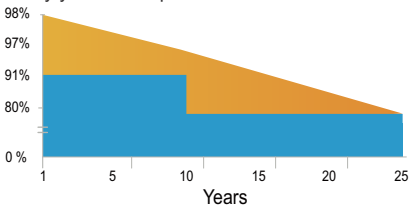


### Bigger Cells with better performance

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

- 12-year warranty for material and technology
  - 25-year linear power output warranty
- Every year 0.55% power attenuation

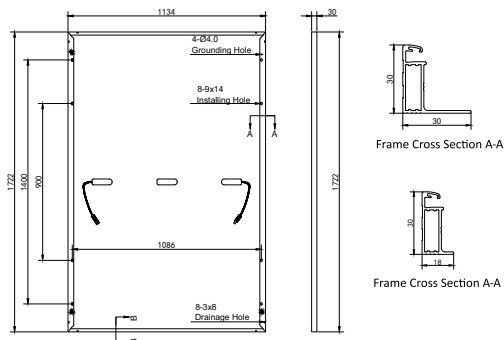


■ SolarPro Linear Power Warranty  
■ Industry Warranty

## Comprehensive Certificates

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





Weight	21.5kg
Dimensions	1722mm*1134mm*30mm
Cell Amount	54*2 pcs
Maximum System Voltage	1500V
Junction Box	IP68
Frame	Aluminum Alloy
Cable	4mm <sup>2</sup> /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/m<sup>2</sup>, 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/m<sup>2</sup>, spectrum AM 1.5, ambient temperature 20°C, wind speed 1 m/s.

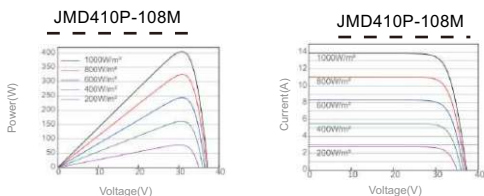
### ❖ TEMPERATURE CHARACTERISTICS

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		

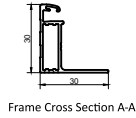
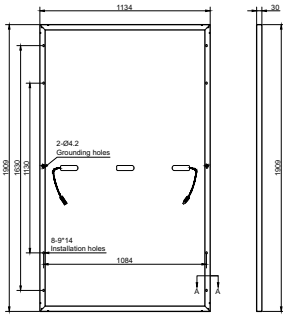
### ❖ CHARACTERISTICS



### ❖ 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 <sup>2</sup> /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/m<sup>2</sup>, spectrum AM 1.5 and cell temperature of 25°C.

### ELECTRICAL PARAMETERS AT NOCT

Maximum Power (Pmax/W)	336.0	340.0	343.0	346.0
Open Circuit Voltage(Voc/V)	38.53	38.65	38.77	38.85
Short Circuit Current(Isc/A)	11.03	11.08	11.12	11.17
Maximum Power Voltage(Vmp/V)	32.35	32.51	32.67	32.76
Maximum Power Current(Imp/A)	10.40	10.46	10.51	10.56

\* Under Nominal Module Operating Temperature (NOCT), irradiance of 800 W/m<sup>2</sup>, spectrum AM 1.5, ambient temperature 20°C, wind speed 1 m/s.

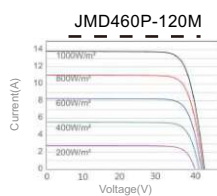
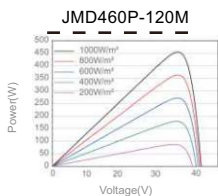
### TEMPERATURE CHARACTERISTICS

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

“Mission:  
**Absorbing Sunshine  
Focusing Energy**

Returning the earth to a clean place”

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