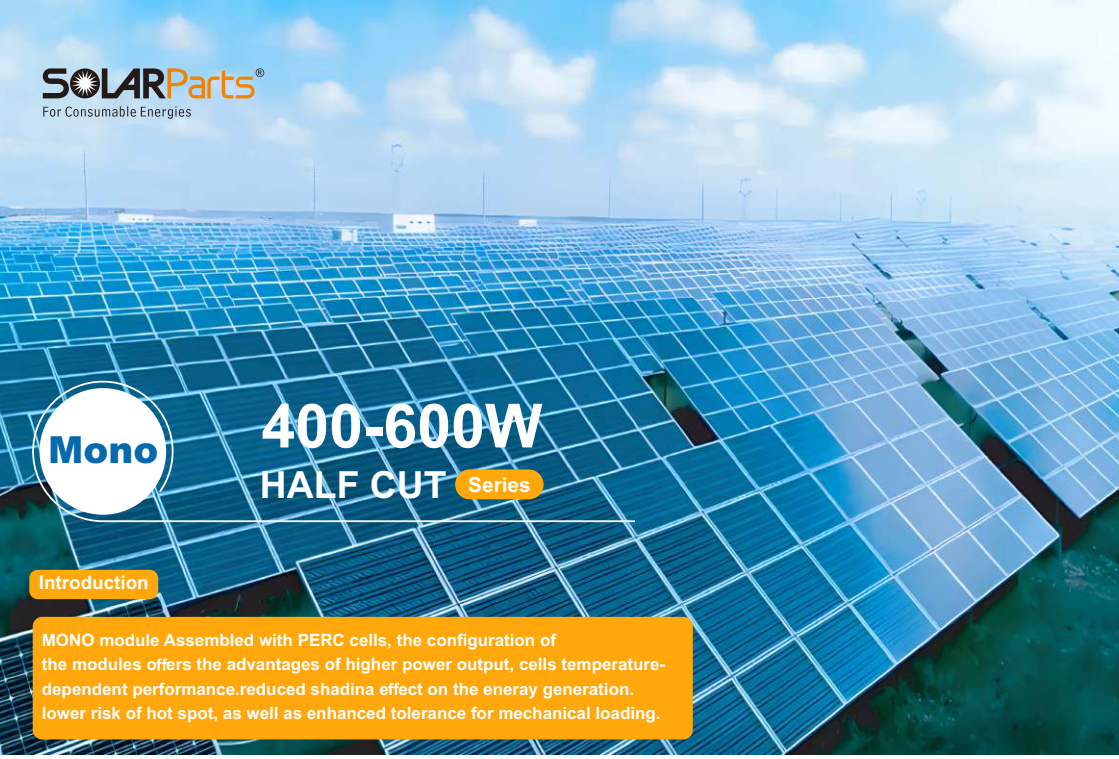
SOLARParts®
For Consumable Energies



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 shadina effect on the eneray 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.

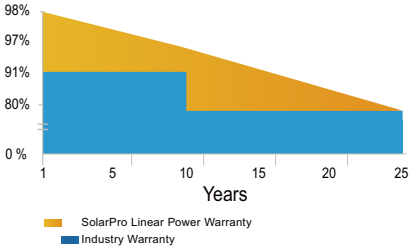
High Power Density
High conversion efficiency and more power output persquare meter,by lower series resistance and improved light harvesting.

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

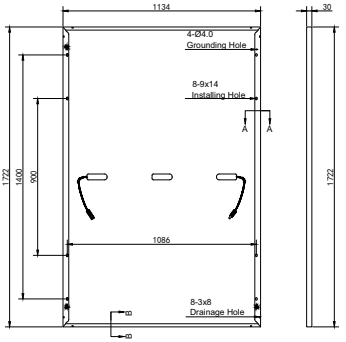
Bigger Cells with better performance
A slight increase of the size of our cells, Boosts the performance of the newest modules by six percent on average.

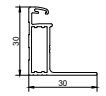
First-class Quality Assurance
- 12-year warranty for material and technology
- 25-year linear power output warranty

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





Frame Cross Section A-A

Frame Cross Section A-A

Weight	21.5kg
Dimensions	1722mm*1134mm*30mm
Cell Amount	54*2 pcs
Maximum System Voltage	1500V
Junction Box	IP68
Frame	Aluminum Alloy
Cable	4mm²/300mm
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
Maximun 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
Maximun 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

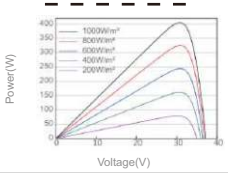
NOCT	45±2°C	Temp Coefficient of Isc	+0.046%/°C
Temp Coefficient of Voc	-0.275%/°C	Temp Coefficient of Pmax	-0.350%/°C

PACKING CONFIGURATION

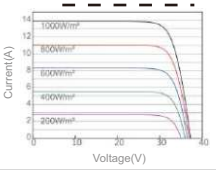
Modules/Pallet	36 Pieces	Modules/40'Container	936 Pieces
Packing Description	26Pallets, Total=(36+36)x13=936 Pieces		

CHARACTERISTICS

JMD410P-108M



JMD410P-108M



MAXIMUM RATING

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

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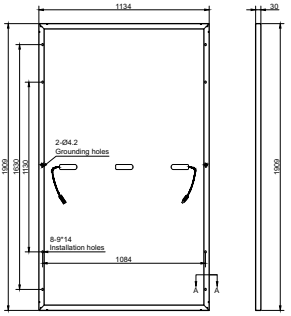
450-460P Series

MECHANICAL DIAGRAMS



Frame Cross Section A-A

SPECIFICATIONS

Weight	23kg
Dimensions	1909mm*1134mm*30mm
Cell Amount	60*2 pcs
Maximum System Voltage	1500V
Junction Box	IP68
Frame	Aluminum Alloy
Cable	4mm²/300mm
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
Maximun 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 tempe rature 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
Maximun 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/m², spectrum AM 1.5, ambient tempe rature 20°C, wind speed 1 m /s.**

TEMPERATURE CHARACTERISTICS

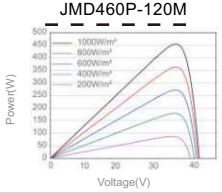
NOCT	45±2°C	Temp Coefficient of Isc	+ 0.046%/°C
Temp Coefficient of Voc	- 0.275%/°C	Temp Coefficient of Pmax	- 0.350%/°C

PACKING CONFIGURATION

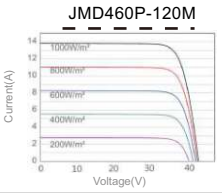
Modules/Pallet	36 Pieces	Modules/40'Container	864 Pieces
Packing Description	24Pallets, Total=(36+36)x12=864 Pieces		

CHARACTERISTICS

JMD460P-120M



JMD460P-120M



MAXIMUM RATING

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

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"Mission:
Absorbing Sunshine
Focusing Energy
Returning the earth to a clean place"

Company: Shenzhen Solarparts Inc.
Shenzhen Puguang Solar Energy Co.,Ltd.

Address: the 4th Floor, A3 Building Xinlian Industrial Park, Ping Xin North Road Pinghu Town Shenzhen 518112 China.

Email address: info@isolarparts.com
Homepage: www.isolarparts.com