



**Mono**

# Solarpro 460W

JMD460P-120M Series

### Introduction

Solarpro MONO half-cut singlemodule Assembled with PERC cells, the half-cell configuration of the modules offers the advantages of higher power output, better 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 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 against PID (Potential Induced Degradation), which translates to security for your investment.

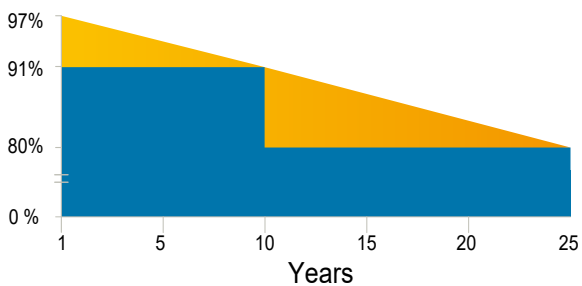


### Bigger Cells with better performance

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



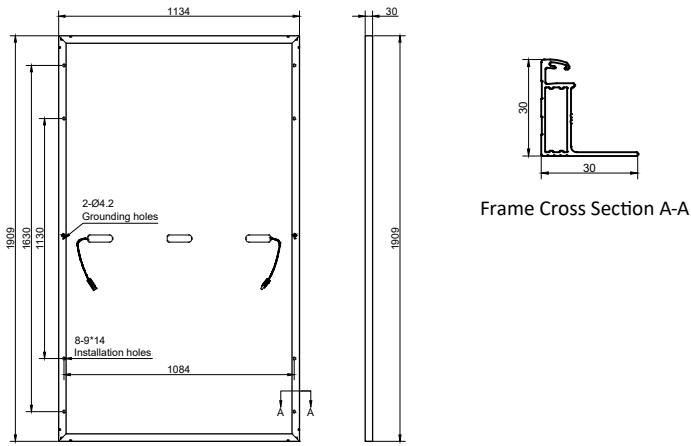
■ Solarpro Linear Power Warranty  
■ Industry Warranty

### Comprehensive Certificates

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



## MECHANICAL DIAGRAMS



## SPECIFICATIONS

|                        |                         |
|------------------------|-------------------------|
| Weight                 | 22.0kg                  |
| 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        | 14.04        |
| Maximum Power Voltage(Vmp/V) | 34.48        | 34.67        | 34.87        | 35.07        |
| Maximum Power Current(Imp/A) | 12.91        | 12.98        | 13.05        | 13.12        |
| 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.

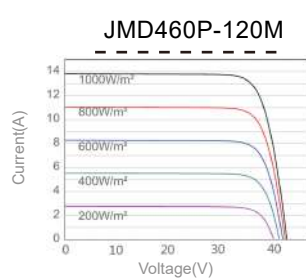
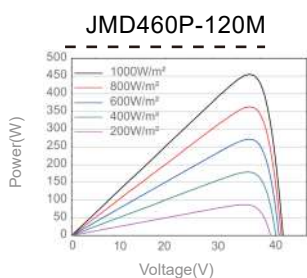
## TEMPERATURE CHARACTERISTICS

|                         |            |                          |            |
|-------------------------|------------|--------------------------|------------|
| 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           |