

# ODA-120MH

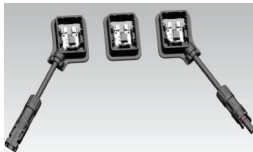
Topcon Technology

## POWER RANGE

460W~485W

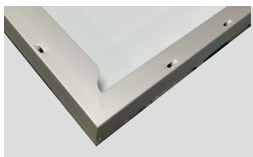
## CELL SIZE

182\*91mm



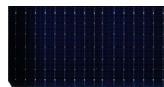
## JUNCTION BOX

Waterproof protection grade: IP68  
Safety Level: Class II  
Maximum System Voltage: 1500V  
outstanding waterproof level -  
Effectively resist harsh environments



## Frame

Strong mechanical load  
resistance up to 5400Pa  
Anodic oxidation layer resistant to  
chemical corrosion available



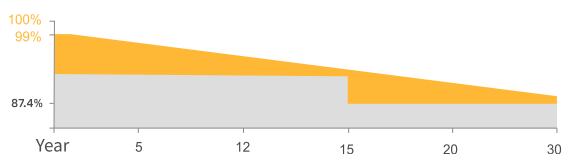
16BB

## QUALIFICATIONS AND CERTIFICATES



• IEC61215 / • IEC61730

## WARRANTY



15  
YEARS

Guarantee on product material and workmanship

30  
YEARS

Linear Power output warranty

## SMBB Technology

Better light trapping and current collection to improve  
module power output and reliability.



## PID Resistance

Excellent Anti-PID performance guarantee via  
optimized mass-production process and materials  
control.



## Durability Against Extreme Environmental Conditions

High salt mist and ammonia resistance.



## Enhanced Mechanical Load

Certified to withstand: wind load (2400 Pascal) and snow  
load (5400 Pascal).



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OSDA Solar established in 2008, is a high-tech enterprise integrating R&D, production and sales of solar energy products. It is committed to the overall solution of distributed photovoltaic system and provides services from consulting, design, construction, financing to intelligent operation and maintenance.

OSDA has 3 production sites in China and branches and representative offices in more than 10 countries overseas. Products include solar cells, modules, On/Off grid solar system, solar pump and other solar related applications. Our products have passed many international certifications such as TUV, MCS, CEC, IEC, ISO, CE, CQC and so on. With excellent quality, our products are exported to more than 100 countries of the world.

Since its establishment, OSDA has always followed the idea of "Smart energy · Lightening future". It has followed the steps of "the Belt and Road Initiative", we bring bright light to the countries and people who are short of electricity. Sharing the concept of modern civilization, and building a green home together.

## ELECTRICAL DATA (STC)

| Model Type                 | ODA460-30V-MH | ODA465-30V-MH | ODA470-30V-MH | ODA475-30V-MH | ODA480-30V-MH | ODA485-30V-MH |
|----------------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Peak Power(Pmax)           | 460.00        | 465.00        | 470.00        | 475.00        | 480.00        | 485.00        |
| Maximum Power Voltage(Vmp) | 34.72         | 34.89         | 35.05         | 35.21         | 35.37         | 35.53         |
| Maximum Power Current(Imp) | 13.25         | 13.33         | 13.41         | 13.49         | 13.57         | 13.65         |
| Open Circuit Voltage(Voc)  | 42.05 ± 3%    | 42.22 ± 3%    | 42.38 ± 3%    | 42.54 ± 3%    | 42.70 ± 3%    | 42.86 ± 3%    |
| Short Circuit Current(Isc) | 13.99 ± 3%    | 14.07 ± 3%    | 14.15 ± 3%    | 14.23 ± 3%    | 14.31 ± 3%    | 14.39 ± 3%    |
| Module Efficiency( % )     | 21.32         | 21.55         | 21.78         | 22.01         | 22.24         | 22.47         |

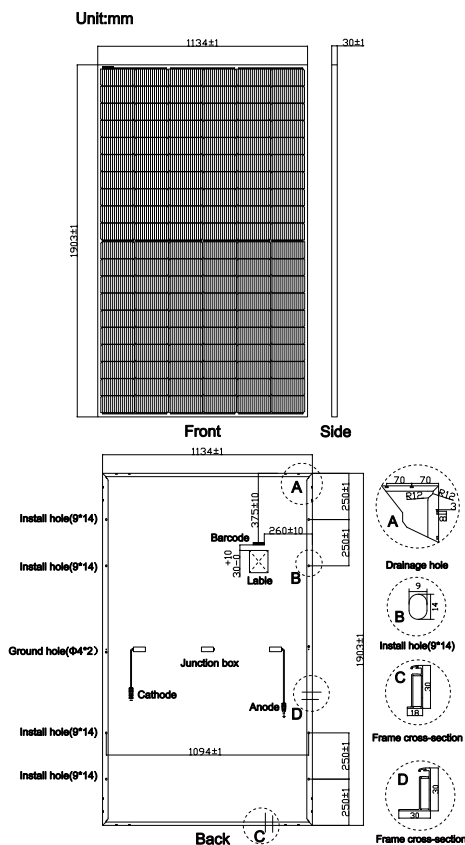
\*STC:irradiance 1000W/m<sup>2</sup>, AM1.5, and cell temperature of 25°C

## ELECTRICAL DATA(NMOT)

| Model Type                 | ODA460-30V-MH | ODA465-30V-MH | ODA470-30V-MH | ODA475-30V-MH | ODA480-30V-MH | ODA485-30V-MH |
|----------------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Peak Power(Pmax)           | 346.00        | 350.00        | 353.00        | 357.00        | 361.00        | 365.00        |
| Maximum Power Voltage(Vmp) | 32.60         | 32.77         | 32.94         | 33.10         | 33.26         | 33.42         |
| Maximum Power Current(Imp) | 10.61         | 10.67         | 10.73         | 10.79         | 10.85         | 10.91         |
| Open Circuit Voltage(Voc)  | 39.94 ± 3%    | 40.10 ± 3%    | 40.25 ± 3%    | 40.41 ± 3%    | 40.57 ± 3%    | 40.73 ± 3%    |
| Short Circuit Current(Isc) | 11.29 ± 3%    | 11.36 ± 3%    | 11.42 ± 3%    | 11.49 ± 3%    | 11.56 ± 3%    | 11.63 ± 3%    |

\*NMOT: irradiance 800 W/m<sup>2</sup>, AM 1.5, ambient temperature 20°C, wind speed 1 m/s

## PV DRAWINGS



## TEMPERATURE & MAXIMUM RATING

|                                                |             |
|------------------------------------------------|-------------|
| Maximum System Voltage (V)                     | 1500 V      |
| Maximum Series Fuse Rating (A)                 | 25 A        |
| Power Tolerance                                | 0~+3 W      |
| Pmax Temperature Coefficients (W/°C)           | -0.300 %/°C |
| Voc Temperature Coefficients (V/°C)            | -0.250 %/°C |
| Isc Temperature Coefficients (A/°C)            | +0.046 %/°C |
| NMOT Nominal Module Operating Temperature (°C) | 45 ± 2 °C   |
| Operating and Storage Temperature (°C)         | -40~+85 °C  |

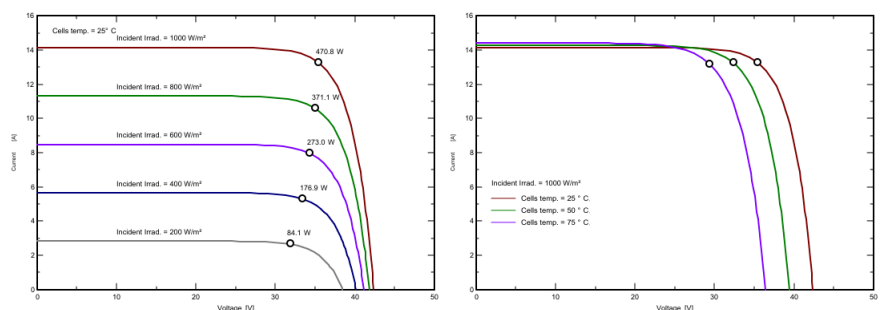
## MECHANICAL CHARACTERISTICS

|                        |                                                       |
|------------------------|-------------------------------------------------------|
| Cell Type              | 182*91 N Type Mono                                    |
| No. of Cells           | 120 (12*10)                                           |
| Dimensions             | 1903*1134*30mm                                        |
| Weight                 | 23.80kg                                               |
| Front Glass            | 3.2mm high transmission, low iron, tempered glass     |
| Frame                  | Anodized Aluminium Alloy                              |
| Junction box           | IP68 3diodes                                          |
| Output cables          | 4mm <sup>2</sup> cable 35cm (Including MC4 connector) |
| MaxWind Load/Snow Load | 2400Pa/5400Pa                                         |

## PACKING WAY

|                |                   |
|----------------|-------------------|
| 20FT container | 6 Packages/222pcs |
| 40HQ container | 24Packages/888pcs |

## IV CURVE (470W)



We Are Seeking Agents And Partners!

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The company reserves the right of final interpretation, August 2022 edition

