

ODA-144HCLM

POWER RANGE

420W~460W

CELL FEATURE

166*83, 23.31%



JUNCTION BOX

High waterproof rating
Protection Degree: IP67
Safety Class: Class II
Rated Voltage: 1500V



FRAME

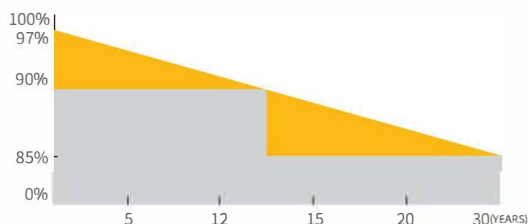
Strong mechanical load
resistance up to 5400 Pa
Anodic oxidation layer resistant
to chemical corrosion
Available in silver and black

QUALIFICATIONS AND CERTIFICATES



• IEC61215 / • IEC61730

WARRANTY

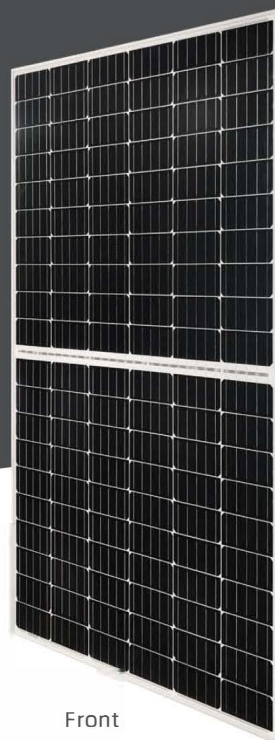


12
YEARS

Guarantee on product material and workmanship

30
YEARS

Linear Power output warranty



Front



Back



5BB



9BB



Higher power output

Resistance decreases and fill factor increases, then out put power increases by 5-10 watts



Longer life span

Hot spot effect is reduced and modules life span is extended.



Better durability

Perform excellently in low irradiance and other severe environment, such as salt mist, ammonia, sand blowing, etc. conditio



PID Resistant

Perfect resistance against PID (PotentialInduced Degradation) to secure your investment.

NINGBO OSDA SOLAR CO.,LTD
www.osdasol.com

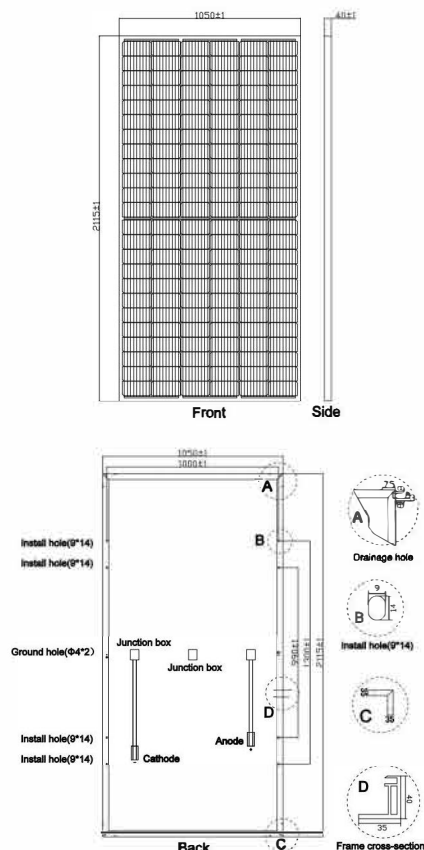
Osda Solar, established in 2009, is a high-tech enterprise specializing in R&D, production and sales of photovoltaic products, such as solar modules, silicon rods, cells, etc., as well as the investment and operation of solar power plant. The capacity of solar modules can reach 1 GW a year.

Located in Ningbo, Osda has a sound market network over Europe, America, Asia, Oceania and Africa. The subordinate branches and representative offices are located in more than 10 countries including Germany, Denmark, Bangladesh, Burma, India, etc.

Osda contributes to a cleaner and greener environment by helping people use alternative energy, which hopefully can lead to a brighter and more prosperous future for human being.

PV DRAWINGS

Unit:mm



ELECTRICAL DATA (STC)

| Model Type | ODA420-36-MH | ODA430-36-MH | ODA440-36-MH | ODA450-36-MH | ODA460-36-MH |
|-----------------------------|--------------|--------------|--------------|--------------|--------------|
| Peak Power(Pmax) | 420.00 | 430.00 | 440.00 | 450.00 | 460.00 |
| Maximum Power Voltage(Vmp) | 40.20 | 40.60 | 41.00 | 41.40 | 41.80 |
| Maximum Power Current(Impp) | 10.45 | 10.60 | 10.74 | 10.87 | 11.01 |
| Open Circuit Voltage(Voc) | 48.80 | 49.20 | 49.60 | 50.22 | 50.70 |
| Short Circuit Current(Isc) | 11.04 | 11.19 | 11.33 | 11.48 | 11.63 |
| Cells Efficiency(%) | 21.28 | 21.79 | 22.30 | 22.80 | 23.31 |
| Module Efficiency(%) | 18.91 | 19.36 | 19.81 | 20.26 | 20.71 |

* STC: irradiance 1000 W/m², AM 1.5, and cell temperature of 25° C

ELECTRICAL DATA (NOCT)

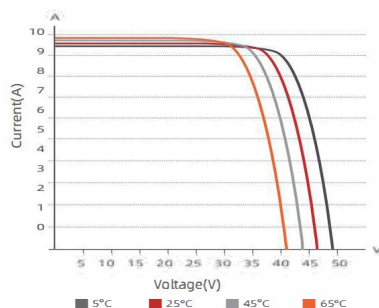
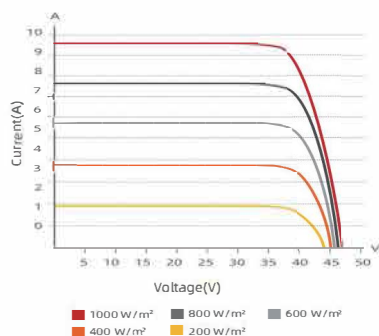
| Model Type | ODA420-36-MH | ODA430-36-MH | ODA440-36-MH | ODA450-36-MH | ODA460-36-MH |
|-----------------------------|--------------|--------------|--------------|--------------|--------------|
| Peak Power(Pmax) | 311.10 | 318.50 | 326.00 | 334.00 | 342.00 |
| Maximum Power Voltage(Vmp) | 37.10 | 37.50 | 37.90 | 38.27 | 38.64 |
| Maximum Power Current(Impp) | 8.38 | 8.50 | 8.61 | 8.73 | 8.86 |
| Open Circuit Voltage(Voc) | 45.50 | 45.90 | 46.30 | 46.84 | 47.30 |
| Short Circuit Current(Isc) | 8.90 | 9.02 | 9.13 | 9.26 | 9.40 |

* NOCT: irradiance 800 W/m², AM 1.5, ambient temperature 20° C, wind speed 1 m/s

TEMPERATURE & MAXIMUM RATING

| | |
|--|-----------|
| Maximum System Voltage(V) | 1500 |
| Maximum Series Fuse Rating(A) | 20 |
| Power Tolerance | 0 ~ +3 % |
| Pmax Temperature Coefficients(W/°C) | -0.370 % |
| Voc Temperature Coefficients(V/°C) | -0.286 % |
| Isc Temperature Coefficients(A/°C) | +0.057 % |
| NOCT Nominal Operating Cell Temperature(°C) | 45±2 |
| Operating and Storage Temperature(°C) | -40 ~ +85 |

IV CURVE



MECHANICAL CHARACTERISTICS

| | |
|------------------------|---|
| Cell Type | 166x83 Mono |
| No. of Cells | 144(12x12) |
| Dimensions | 2115*1050*40 |
| Weight | 23.5kg |
| Front Glass | 3.2mm high transmission, low iron, tempered glass |
| Frame | Anodized Aluminium Alloy |
| Junction box | IP68 3 diodes |
| Output cables | 4mm ² cable 90cm+mc4 |
| MaxWind Load/Snow Load | 2400Pa/5400Pa |

PACKING WAY

| | |
|----------------|--------------------|
| 20FT container | 5 Packages/135PCS |
| 40HQ containe | 22 Packages/594PCS |



We Are Seeking Agents And Partners!

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