

ODA-144MHD

Topcon Technology

POWER RANGE

580W~590W

CELL SIZE

182*91mm



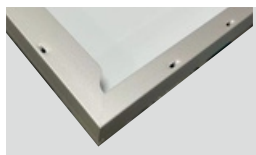
JUNCTION BOX

Waterproof protection grade: IP68
Safety Level: Class II Maximum
System Voltage: 1500V

Outstanding waterproof level.
Effectively resist harsh environments



16BB



Frame

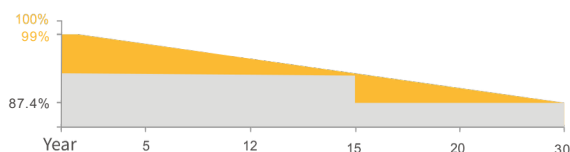
Strong mechanical load resistance—
up to 5400Pa Anodic oxidation
layer resistant to chemical
corrosion available

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.



Higher Power Output

Module power increases 5-25% generally, bringing
significantly lower LCOE and higher IRR.



Enhanced Mechanical Load

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

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

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, Lightning 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	ODA580-36V-MHD	ODA585-36V-MHD	ODA590-36V-MHD
Peak Power(Pmax)	580.00	585.00	590.00
Maximum Power Voltage(Vmp)	42.37	42.52	42.67
Maximum Power Current(Imp)	13.69	13.76	13.83
Open Circuit Voltage(Voc)	51.02±3%	51.16±3%	51.41±3%
Short Circuit Current(Isc)	14.47±3%	14.55±3%	14.63±3%
Module Efficiency(%)	22.45	22.64	22.83

*STC:irradiance 1000W/m², AM1.5, and cell temperature of 25°C

ELECTRICAL DATA(NMOT)

Model Type	ODA580-36V-MHD	ODA585-36V-MHD	ODA590-36V-MHD
Peak Power(Pmax)	437.00	441.00	445.00
Maximum Power Voltage(Vmp)	39.77	39.90	40.03
Maximum Power Current(Imp)	10.97	11.06	11.12
Open Circuit Voltage(Voc)	48.46±3%	48.59±3%	48.72±3%
Short Circuit Current(Isc)	11.68±3%	11.77±3%	11.83±3%

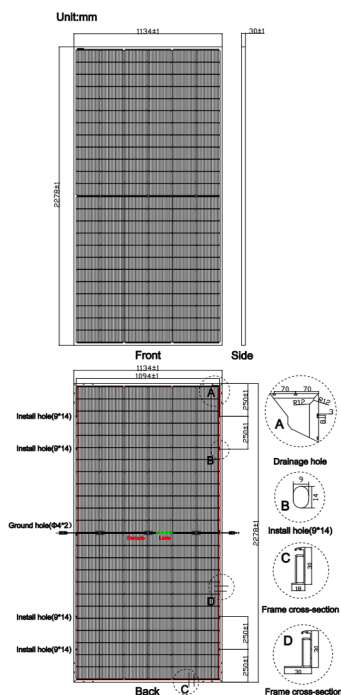
*NMOT: irradiance 800 W/m², AM 1.5, ambient temperature 20°C, wind speed 1 m/s

ELECTRICAL DATA(BNPI)

Model Type	ODA580-36V-MHD	ODA585-36V-MHD	ODA590-36V-MHD
Peak Power(Pmax)	643.00	648.00	654.00
Maximum Power Voltage(Vmp)	42.37	42.52	42.67
Maximum Power Current(Imp)	15.18	15.24	15.33
Open Circuit Voltage(Voc)	51.02±3%	51.16±3%	51.41±3%
Short Circuit Current(Isc)	16.03±3%	16.12±3%	16.21±3%

*BNPI:back irradiance 135W/m², AM1.5, and cell temperature of 25°C

PV DRAWINGS



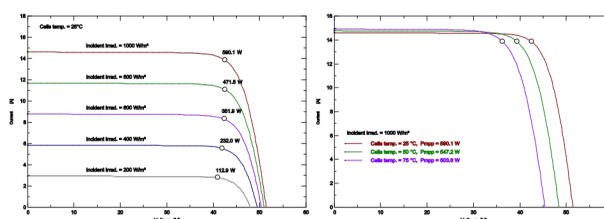
TEMPERATURE & MAXIMUM RATING

Maximum System Voltage (V)	1500 30
Maximum Series Fuse Rating (A)	0~+3%
Power Tolerance (W)	-0.290%
Pmax Temperature Coefficient (sW/°C)	-0.250%
Voc Temperature Coefficient (sV/°C)	+0.041%
Isc Temperature Coefficient (sA/°C)	45±2
NMOT Nominal Module Operating Temperature (°C)	-40~+85
Operating and Storage Temperature (°C)	

MECHANICAL CHARACTERISTICS

Cell Type	182*91 N Type Bifacial Mono
No. of Cells	144 (12*12)
Dimensions	2278*1134*30mm
Weight	32.00kg
Front Glass	2.0mm AR coating tempered glass
Back Glass	2.0mm Glazed Glass
Frame	Anodized Aluminium Alloy
Junction box	IP68 3diodes
Output cables	4mm ² cable 35cm (Including MC4 connector)
MaxWind Load/Snow Load	2400Pa/5400Pa

IV CURVE (590W)



PACKING WAY

20FT container	5 Packages/185pcs
40HQ container	20 Packages/740pcs



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