T1-MP-144-550

Osda

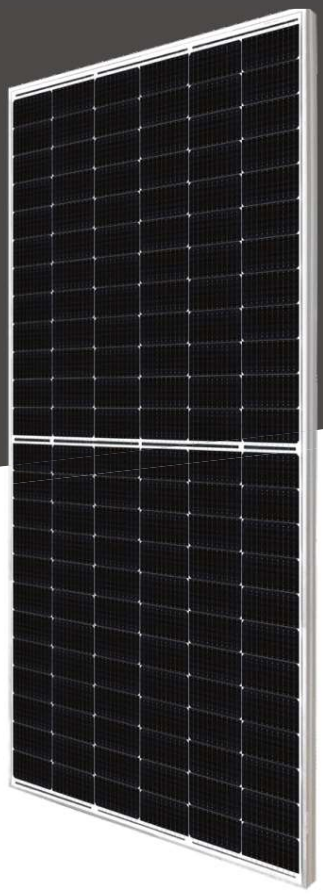
ODA-144MH

POWER RANGE

525W~550W

CELL SIZE

182*91mm



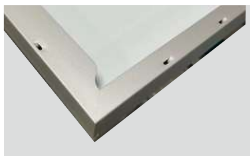


10BB



JUNCTION BOX

Waterproof protection grade:IP67/IP68
Safety Level: Class II
Maximum System Voltage: 1500V
outstanding waterproof level、
Effectively resist harsh environments



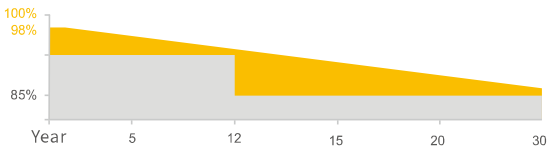
Frame

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

QUALIFICATIONS AND CERTIFICATES

·IEC61215 / · IEC61730

WARRANTY



12 YEARS Guarantee on product materail and workmanship

30 YEARS Linear Power output warranty

Half-cut Technology

New circuit design, lower internal current and
lower internal resistance loss

Significantly avoiding heat spot

The unique circuit design to reduce the temperature
of heat spot significantly,so that to reduce the power loss
and then increase the output of modules.

Lower cost

Increasing power generation can reduce the
cost per kilowatt-hour

Excellent performance of PID resistance

The performance of PID resistance(Potential Induced
Degradation) passed the standard of TUV Nord.

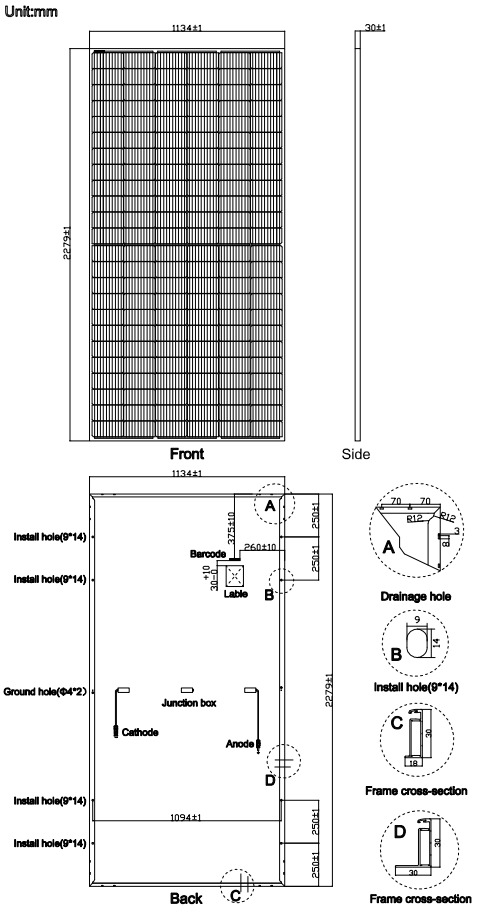
OSDA Solar established in 2008, is a high-tech enterprise integrating R&D, production and sales of solar energy products. It is committed to the overall solution of distributed photovoltaic system and provides services from consulting, design, construction, financing to intelligent operation and maintenance.

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.

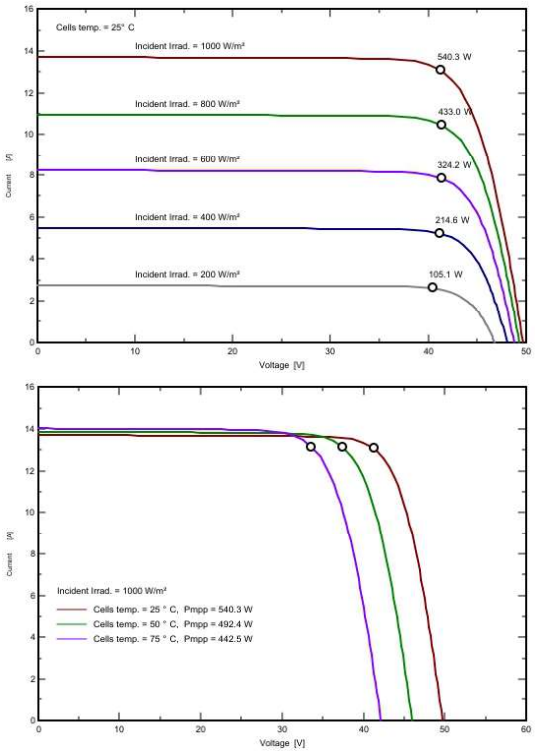
Since its establishment, OSDA has always followed the idea of "Smart energy · Lightening future". It has followed the steps of" the Belt and Road Initiative", we bring bright light to the countries and people who are short of electricity. Sharing the concept of modern civilization, and building a green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

ODA-144MH

PV DRAWINGS



IV CURVE (540W)



ELECTRICAL DATA (STC)

Model Type	ODA525-36V-MH	ODA530-36V-MH	ODA535-36V-MH	ODA540-36V-MH	ODA545-36V-MH	ODA550-36V-MH
Peak Power(Pmax)	525.00	530.00	535.00	540.00	545.00	550.00
Maximum Power Voltage(Vmp)	41.28	41.44	41.60	41.76	41.93	42.10
Maximum Power Current(Imp)	12.72	12.79	12.84	12.93	13.00	13.06
Open Circuit Voltage(Voc)	49.10±3%	49.30±3%	49.50±3%	49.70±3%	49.90±3%	50.10±3%
Short Circuit Current(Isc)	13.56±3%	13.65±3%	13.74±3%	13.83±3%	13.92±3%	14.01±3%
Module Efficiency(%)	20.31	20.50	20.70	20.89	21.08	21.28

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

ELECTRICAL DATA (NOCT)

Model Type	ODA525-36V-MH	ODA530-36V-MH	ODA535-36V-MH	ODA540-36V-MH	ODA545-36V-MH	ODA550-36V-MH
Peak Power(Pmax)	390.30	394.0	397.7	401.4	405.1	408.9
Maximum Power Voltage(Vmp)	38.30	38.46	38.62	38.78	38.93	39.09
Maximum Power Current(Imp)	10.20	10.25	10.30	10.35	10.41	10.46
Open Circuit Voltage(Voc)	46.00±3%	46.18±3%	46.36±3%	46.54±3%	46.73±3%	46.92±3%
Short Circuit Current(Isc)	10.81±3%	10.89±3%	10.97±3%	11.05±3%	11.13±3%	11.20±3%

* 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 V
Maximum Series Fuse Rating (A)	25 A
Power Tolerance	0~+3 W
Pmax Temperature Coefficients (W/°C)	-0.350 %/°C
Voc Temperature Coefficients (V/°C)	-0.285 %/°C
Isc Temperature Coefficients (A/°C)	+0.045 %/°C
NOCT Nominal Operating Cell Remperature (°C)	45±2 °C
Operating and Storage Temperature (°C)	-40~+85 °C

MECHANICAL CHARACTERISRTICS

Cell Type	182*91 Mono
No. of Cells	144 (12*12)
Dimensions	2279*1134*30mm
Weight	28.40kg
Front Glass	3.2mm high transmission, low iron, tempered glass
Frame	Anodized Aluminium Alloy
Junction box	IP67/IP68 3diodes
Output cables	4mm² cable 35cm (Inlcuding MC4 connector)
MaxWind Load/Snow Load	2400Pa/5400Pa

PACKING WAY

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

Osda