V-TAC

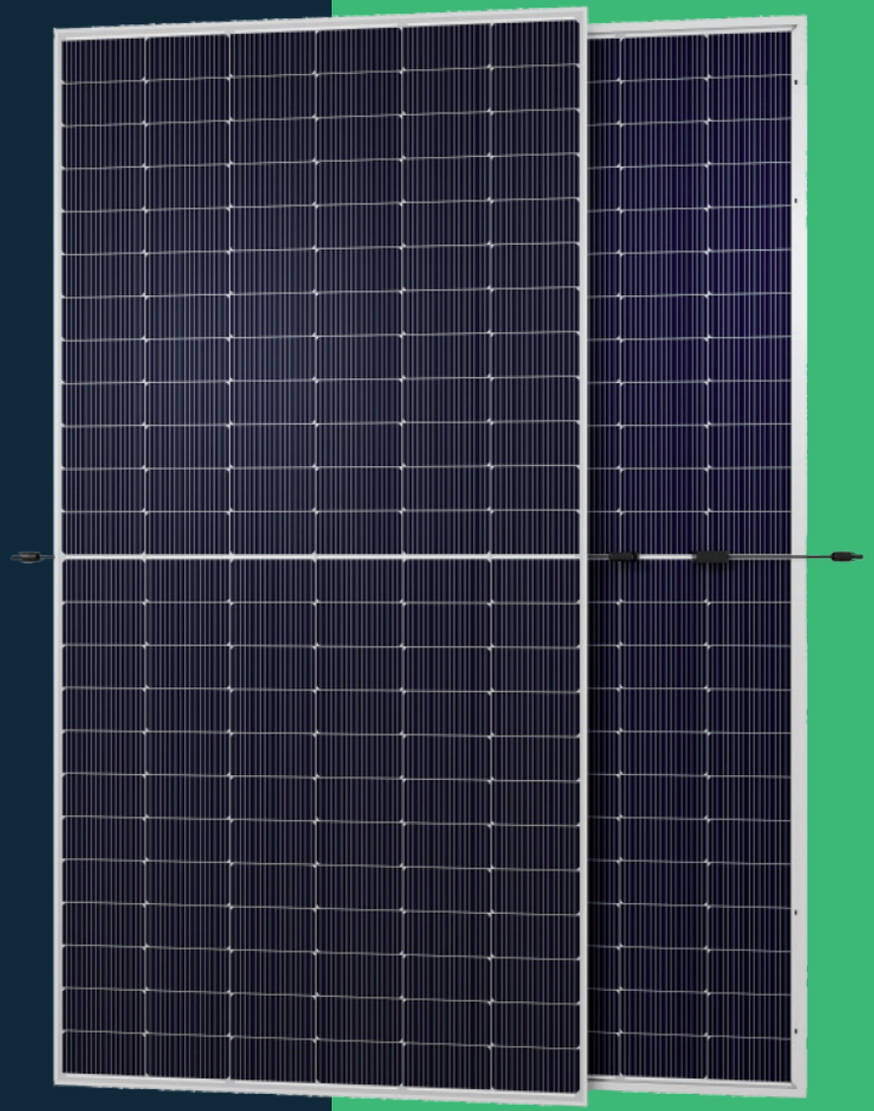
Meaningful Innovation.

590W

Double Glass Bifacial TOPCon Technology Solar Panel

Osda

TIER 1



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).

V-TAC.EU | VTACEXPORTS.COM

TÜV NORD MCS CERTIFIED CE ISO

TOPCon Solar Panel

Meaningful Innovation.

LISTING DETAILS

Model No:	**ODA590-36V-MHD**
SKU Code:	**12271**
EAN Code: `	**3800170227217**

PACKAGING WAY

20FT container	**5 pallets/185pcs**
40HQ container	**20 pallets/740pcs**

ELECTRICAL DATA (STC)

Peak Power(Pmax)	590.00
Maximum Power Voltage(Vmp)	42.67
Maximum Power Current(Imp)	13.83
Open Circuit Voltage(Voc)	51.41±3%
Short Circuit Current(Isc)	14. 63±3%
Module Efficiency(%)	22.83

ELECTRICAL DATA (NOCT)

Peak Power(Pmax)	445.00
Maximum Power Voltage(Vmp)	40.03
Maximum Power Current(Imp)	11.12
Open Circuit Voltage(Voc)	48. 72±3%
Short Circuit Current(Isc)	11.83±3%

ELECTRICAL DATA(BNPI)

Peak Power(Pmax)	654.00
Maximum Power Voltage(Vmp)	42.67
Maximum Power Current(Imp)	15.33
Open Circuit Voltage(Voc)	51.41±3%
Short Circuit Current(Isc)	16.21±3%

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	4mm2 cable 35cm (Including Mc4 connector)
Maxwind Load/snow Load	2400pa/5400pa
Class of Safety Protection	Class II
IEC Component Fire Rating	Class C

TEMPERATURE & MAXIMUM RATING

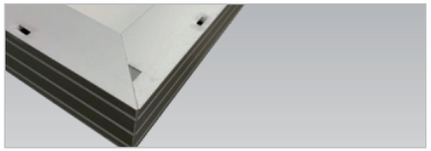
Maximum System Voltage （V）	1500
Maximum Series Fuse Rating （A）	30
Power Tolerance	0~+3
Pmax Temperature Coefficient (W/℃)	-0.290 %
Voc Temperature Coefficient （V/℃）	-0.250 %
Isc Temperature Coefficient （A/℃）	+0.041 %
NOMT Nominal Operating Cell Remperature （℃）	45±2
Operating and Storage Temperature （℃）	-40~+85



JUNCTION BOX

Waterproof protection grade:IP67/IP68
Safety Level: Class II
Maximum System Voltage: 1500V

Outstanding waterproof level、Effectively resist harsh environments



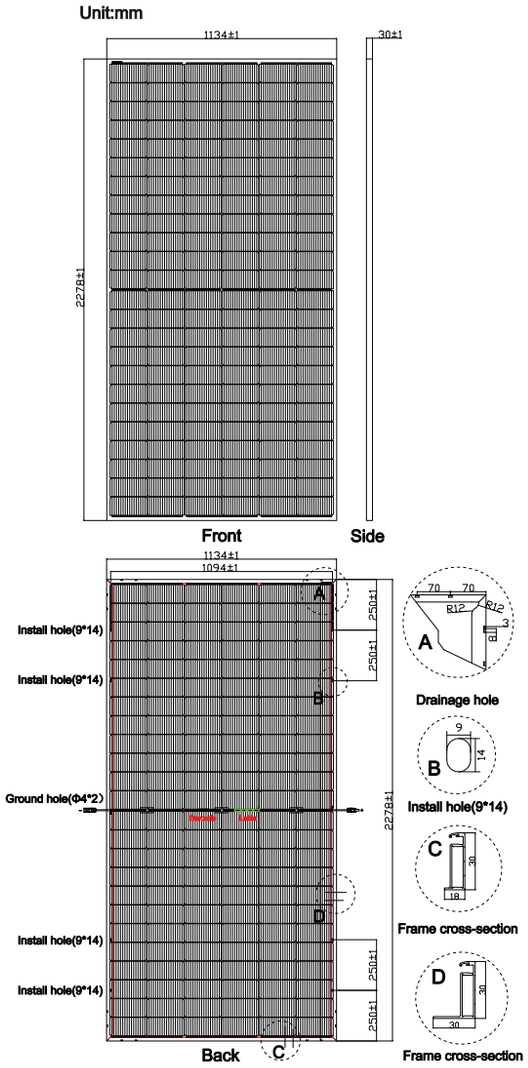
FRAME

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

25 YEAR WARRANTY
PRODUCT MATERIAL

30 YEAR WARRANTY
LINEAR POWER OUTPUT

DRAWING AND DIMENSION



IV CURVE

