

# V-TAC

Meaningful Innovation.

## 450W

## Mono Half Solar Panel



### 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.



V-TAC.EU



VTACEXPORTS.COM



### LISTING DETAILS

Model No: **VT-450W**  
 SKU Code: **11353**  
 EAN Code: **3800157682213**

### MASTER BOX PACKAGING

Qty Per Pallet: **31pcs/pallet**  
 Net Weight : **23.50kg**  
 Product Size : **2094\*1038\*35mm**

### ELECTRICAL DATA (STC)

Peak Power(Pmax)	450.00
Maximum Power Voltage(Vmp)	41.50
Maximum Power Current(Imp)	10.85
Open Circuit Voltage(Voc)	49.30±3%
Short Circuit Current(Isc)	11.60±3%
Module Efficiency( % )	20.70

### ELECTRICAL DATA (NOCT)

Peak Power(Pmax)	336.10
Maximum Power Voltage(Vmp)	38.60
Maximum Power Current(Imp)	8.70
Open Circuit Voltage(Voc)	46.20±3%
Short Circuit Current(Isc)	9.38±3%

### MECHANICAL CHARACTERISTICS

Cell Type	166*83 Mono
No. of Cells	144 (12*12)
Front Glass	3.2mm high transmission, low iron, tempered glass
Frame	Anodized Aluminium Alloy
Junction box	IP67/IP68 3diodes
Output cables	4mm <sup>2</sup> cable 55cm (Including MC4 connector)
MaxWind Load/Snow Load	2400Pa/5400Pa

### TEMPERATURE & MAXIMUM RATING

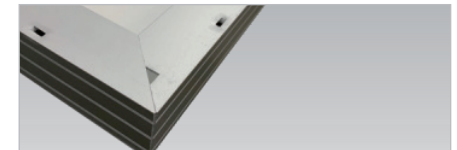
Maximum System Voltage (V)	1500 V
Maximum Series Fuse Rating (A)	20 A
Power Tolerance	0~+3 W
Pmax Temperature Coefficient (W/°C)	-0.350 %/°C
Voc Temperature Coefficient (V/°C)	-0.270 %/°C
Isc Temperature Coefficient (A/°C)	+0.048 %/°C
NOCT Nominal Operating Cell Temperature (°C)	45±2°C
Operating and Storage Temperature (°C)	-40~+85°C



### JUNCTION BOX

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

Outstanding waterproof level. Effectively resist harsh environments

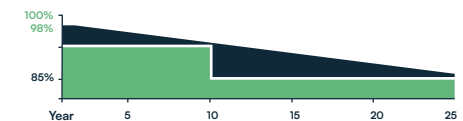


### FRAME

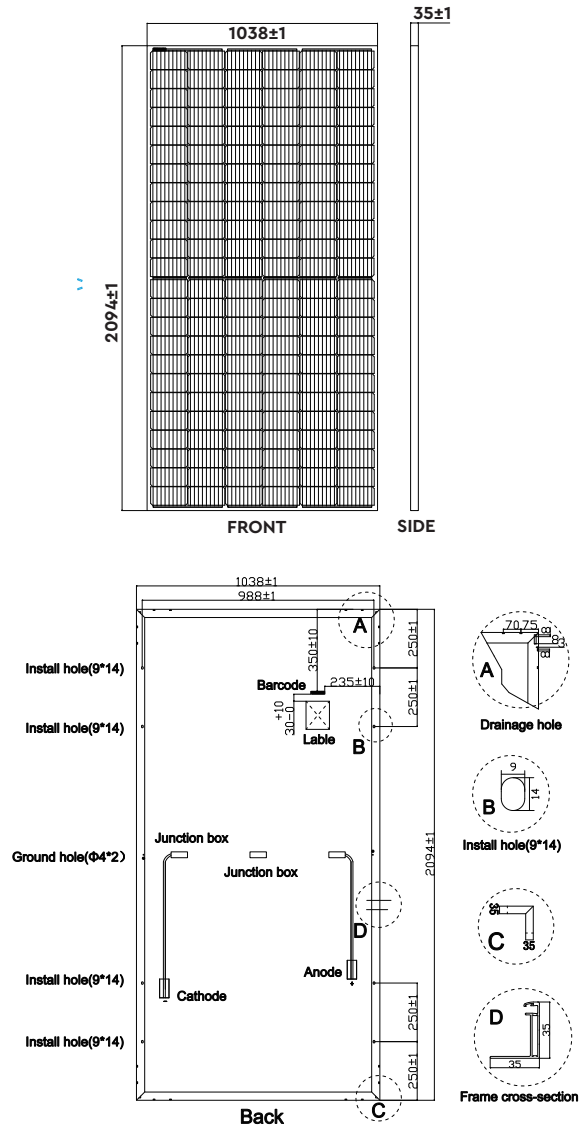
Strong machinical load resistance up to 5400Pa  
 Anodic oxidation layer resistant to chemical corrosion  
 available in silver and black

**10 YEAR**  
**WARRANTY**  
 PRODUCT MATERIAL AND  
 WORKMANSHIP

**25 YEAR**  
**WARRANTY**  
 LINEAR POWER OUTPUT



## DRAWING AND DIMENSION



## IV CURVE

