

**0~+3 W**

**POSITIVE TOLERANCE**

Positive tolerance of up to 3W delivers higher output reliability.

**450W**

**POWER OUTPUT**

Monocrystalline Module

**4mm<sup>2</sup> cable 55cm**  
**OUTPUT CABLES**

Including MC4 connector

**20.70%**

**MODULE EFFICIENCY**

half-cell designs improves the module's performance and durability.

## Mono Half Solar Panel



**10 YEAR**

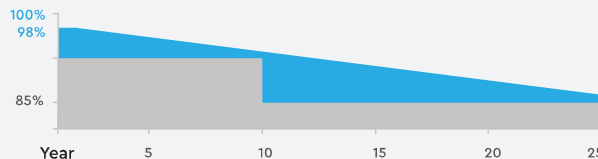
**WARRANTY**

PRODUCT MATERIAL AND WORKMANSHIP

**25 YEAR**

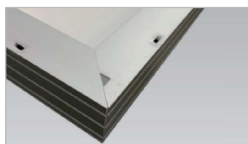
**WARRANTY**

LINEAR POWER OUTPUT



**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



**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.

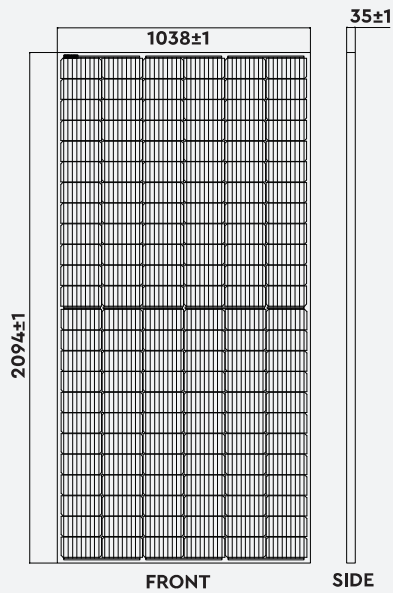


SOLD IN OVER  
**70** COUNTRIES

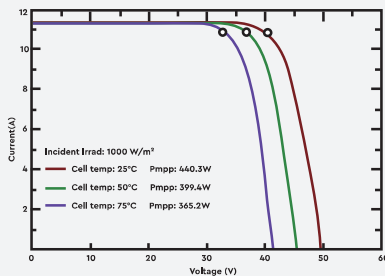
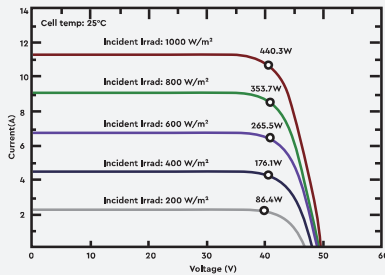
[www.vtacexports.com](http://www.vtacexports.com)

ONE BRAND, ENDLESS SOLUTIONS.

### DRAWING AND DIMENSION CURVE



### IV CURVE



### LISTING DETAILS

Modle No: VT-450W  
SKU Code: 11353  
EAN Code: 3800157682213

### MASTER BOX PACKAGING

Qty Per Pallet: 31pcs/pallet

### 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%

### 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

### MECHANICAL CHARACTERISTICS

Cell Type	166*83 Mono
No. of Cells	144 (12*12)
Dimensions	2094*1038*35mm
Weight	23.50kg
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