



# SOLAR ENERGY

**0~+3 W**

## POSITIVE TOLERANCE

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

**410W**

## POWER OUTPUT

Monocrystalline Module

**4mm<sup>2</sup> cable 100cm**  
**OUTPUT CABLES**

Including MC4 connector

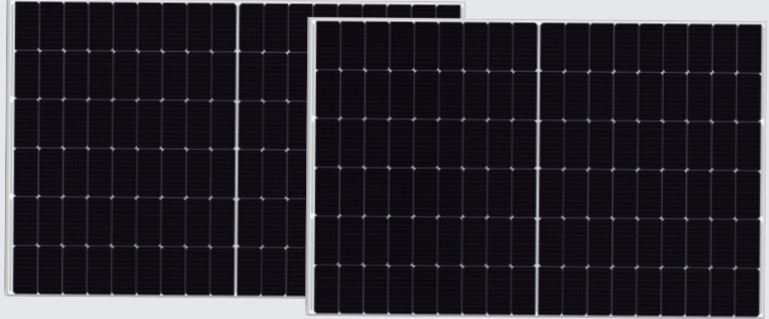
**20.97%**

## MODULE EFFICIENCY

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

## Mono Half Solar Panel

WHITE FRAME

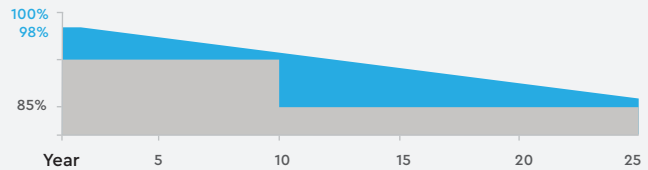


**10 YEAR**

**WARRANTY**  
PRODUCT MATERIAL AND  
WORKMANSHIP

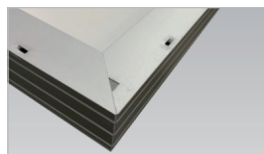
**25 YEAR**

**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.

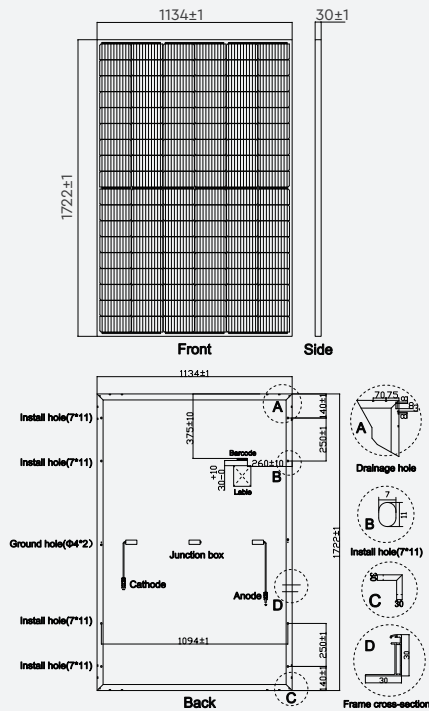


SOLD IN OVER  
**70** COUNTRIES

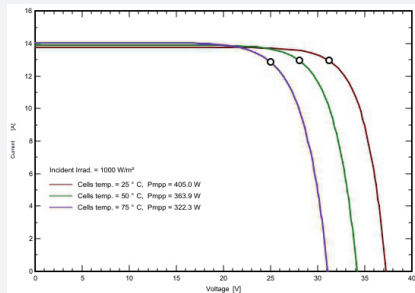
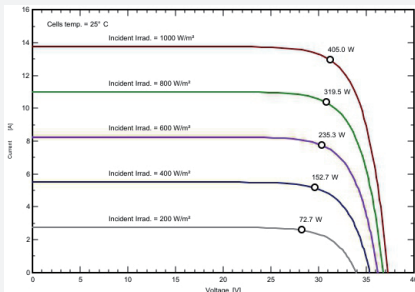
[www.vtacexports.com](http://www.vtacexports.com)

ONE BRAND, ENDLESS SOLUTIONS.

## DRAWING AND DIMENSION CURVE



## IV CURVE



## ELECTRICAL DATA (STC)

Peak Power(Pmax)	410.00
Maximum Power Voltage(Vmp)	31.46
Maximum Power Current(Imp)	13.04
Open Circuit Voltage(Voc)	37.45±3%
Short Circuit Current(Isc)	13.85±3%
Module Efficiency( % )	20.97

## ELECTRICAL DATA (NOCT)

Peak Power(Pmax)	304.8
Maximum Power Voltage(Vmp)	29.20
Maximum Power Current(Imp)	10.44
Open Circuit Voltage(Voc)	35.05±3%
Short Circuit Current(Isc)	11.16±3%

## TEMPERATURE & MAXIMUM RATING

Maximum System Voltage (V)	1500 V
Maximum Series Fuse Rating (A)	25A
Power Tolerance	0~+3 W
Pmax Temperature Coefficient (W/°C)	-0.350 %/°C
Voc Temperature Coefficient (V/°C)	-0.285 %/°C
Isc Temperature Coefficient (A/°C)	+0.045 %/°C
NOCT Nominal Operating Cell Temperature (°C)	45±2°C
Operating and Storage Temperature (°C)	-40~+85°C

## MECHANICAL CHARACTERISTICS

Cell Type	182*91 Mono
No. of Cells	108 (12*9)
Dimensions	1722*1134*30mm
Weight	21.50kg
Front Glass	3.2mm high transmission, low iron, tempered glass
Frame	Anodized Aluminium Alloy
Junction box	IP67/IP68 3diodes
Output cables	4mm² cable 100cm (Including MC4 connector)
MaxWind Load/Snow Load	2400Pa/5400Pa

## LISTING DETAILS

Modle No: VT-410  
 SKU Code: 11517  
 EAN Code: 3800157693493

## MASTER BOX PACKAGING

20ft Container:  
 6 Packages/222pcs  
 40ft Container:  
 26 Packages/962pcs