

# VE478PVTC

Technology *TOPCON*

Power range

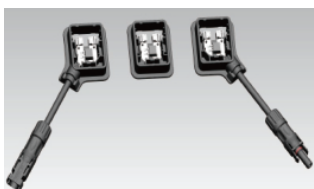
590W~630W

Cell size

182\*91mm



16BB



## JUNCTION BOX

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



## FRAME

Strong mechanical load resistance up to 5400Pa  
Anodic oxidation layer resistant to chemical corrosion available



### 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.



### Durability Against Extreme Environmental Conditions

High salt mist and ammonia resistance.



### Enhanced Mechanical Load

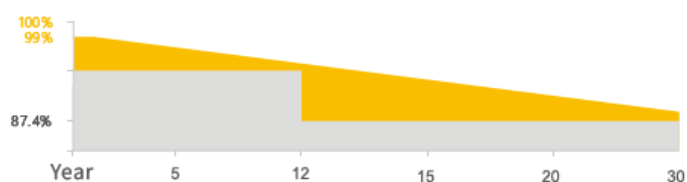
Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal).

## Product and company certificates



· IEC61215 / · IEC61730

## Warranty



## Packaging

20FT container 4 PACKAGING/148 pieces  
40HQ container 16 PACKAGING/592 pieces

20  
YEARS

Product material and workmanship warranty

30  
YEARS

Linear power guarantee

**Electrical data (STC)**

Maximum power (Pmax)	600
Voltage at max. power (Vmp)	45.39
Current at max. power (Imp)	13.22
Open circuit voltage (Voc)	54.95±3%
Short circuit current (Isc)	13.97±3%
Efficiency (%)	21.46

\* Electrical values measured in STC conditions of: Irradiance 1000 W/m2 - Module temperature = 25°C - Air mass AM 1.5 - Wind speed 1 m/s

**Construction properties**

Cell technology	TOPCON "half-cut" monocrystalline silicon
Number of cells	156
Dimensions (mm)	2465*1134*30
Weight (kg)	30.70
Front glass	Tempered solar glass 3.2 mm
Frame	Alluminio anodizzato
Scatola di giunzione	IP67/IP68 with 3 diodes
Cable typology	4mm <sup>2</sup> cable 35cm (including MC4 connector)
Maximum permissible load in pressure/traction [Pa]	2400/5400

**Maximum temperature and power**

Maximum system voltage [V]	1500
Maximum reverse current load capacity [A]	25
Power tolerance	0~+3 W
Pmax Temperature Coefficient (W/°C)	-0.300 %/°C
Voc Temperature Coefficient (V/°C)	-0.250 %/°C
Isc Temperature Coefficient (A/°C)	+0.046 %/°C
NMOT (C°)	45±2 °C
Nominal operating temperature range [°C]	-40~+85 °C

\*NMOT value tested under conditions of:

- Air temperature Te, NOCT = 20 °C;
- GNOCT irradiance = 800 W/m2; Wind speed 1m/s;
- Module resting on a 37° inclined surface, therefore absence of thermal convection on the lower surface.

