

VE472PVDG

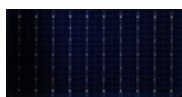
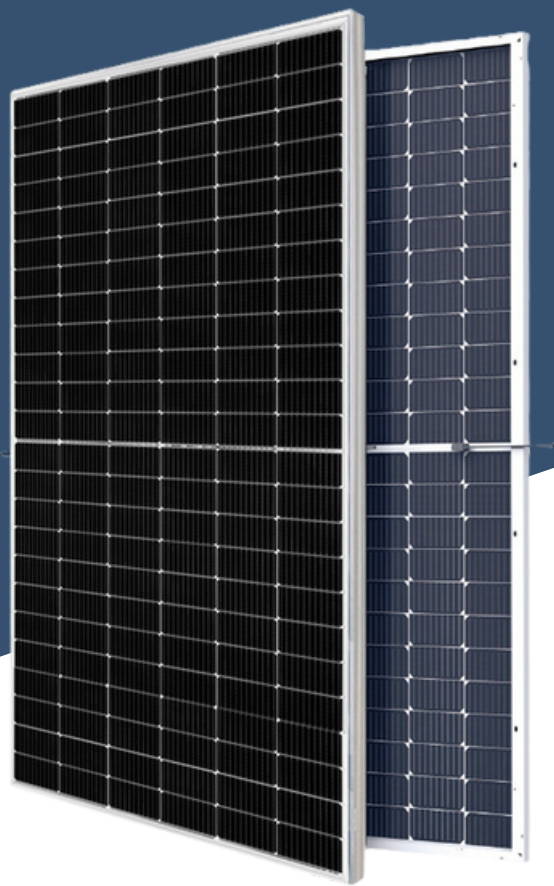
Technology Double Glass

Power range

525W~550W

Cell size

182*91mm

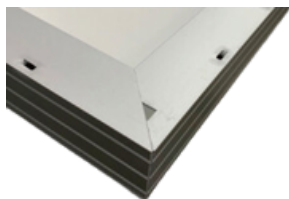


10BB



JUNCTION BOX

Waterproof protection grade: IP67/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 in silver and black



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

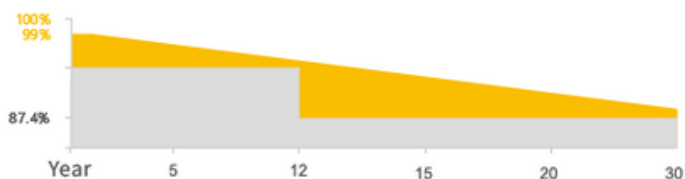
Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal).

Product and company certificates



· IEC61215 / · IEC61730

Warranty



20 YEARS

Product material and workmanship warranty

30 YEARS

Linear power guarantee

Packaging

20FT container 5 PACKAGING/185 pieces
40HQ container 20 PACKAGING/740 pieces

Electrical data (STC)

| | |
|-----------------------------|----------|
| Maximum power (Pmax) | 550 |
| Voltage at max. power (Vmp) | 42.10 |
| Current at max. power (Imp) | 13.16 |
| Open circuit voltage (Voc) | 50.10±3% |
| Short circuit current (Isc) | 14.01±3% |
| Efficiency (%) | 21.29 |

* 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 | 144 |
| Dimensions (mm) | 2278*1134*30 |
| Weight (kg) | 32.20 |
| Front glass | 2.0 mm high transparency tempered glass |
| Rear window | 2.0 mm high transparency glass |
| Frame | Anodized aluminum |
| Junction box | IP67/IP68 with 3 diodes |
| Cable typology | 4mm ² 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] | 30 |
| 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 |
| 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.

Double Sided Gain (e.g. 540W)

| Pmax gained | Pmax/W | Vmpp/V | Imp/A | Voc/V | Isc/A |
|-------------|--------|--------|-------|----------|----------|
| 5% | 567 | 41.76 | 13.58 | 49.70±3% | 14.53±3% |
| 15% | 621 | 41.76 | 14.88 | 49.70±3% | 15.92±3% |
| 25% | 675 | 41.76 | 16.17 | 49.70±3% | 17.30±3% |

