

## YL180Wp, Yingli Solar

Yingli's 180 watt photovoltaic module is designed for large electrical power requirements. With a 25 year warranty, the YL180 has superb durability to withstand rigorous operating conditions. Ideal for grid-connected and remote power systems, the YL180 offers high usable power per square foot of solar array.

- ◆ Solar Cell: High efficiency crystalline solar cell. Even if under the weak light, the solar module can produce maximum power output.
- ◆ Tempered glass: Anti-reflecting coating and high transmission rate glass increase the power output and mechanical strength of solar module.
- ◆ EVA and TPT: Using high quality EVA and TPT to prevent destroying and water.
- ◆ Al frame: Without screw, corner connection. 6 holes on the frame can be installed easily.
- ◆ Junction box: Multi function junction box with water proof.
- ◆ Long lifetime:  $\geq 25$  years; Less power decrease.
- ◆ Good performance of preventing from atrocious weather such as wind and hails.
- ◆ Resisting moisture and etching effectively, not effect by geology.
- ◆ The certificate issued by international authority: ISO Quality Management system.



- World-class Product and Service
- Complete Production Chain
- PV Manufacturer from China



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## ELECTRICAL PARAMETER

Module type	180(23)PR1335×990
Cell	Poly-crystal silicon
No. of Cells and Connections	48 in series
Maximum Power (Pm)	180W±3%
Maximum Power Voltage (Vpm)	23.0V
Maximum Power Current (Ipm)	7.82A
Open Circuit Voltage (Voc)	29.0V
Short Circuit Current (Isc)	8.36A
Module Efficiency	13.6%
Cell Efficiency	15.9%

(\* (STC) Standard Test Conditions: 25°C, 1 KW/m<sup>2</sup>, AM 1.5)

## MECHANICAL CHARACTERISTIC

Dimensions (HxWxD)	1335×990×50mm
Weight	15.7Kg(34.6Pound)
Area	1.32m <sup>2</sup>

(Cable Length 900mm provide by clients' requirement)

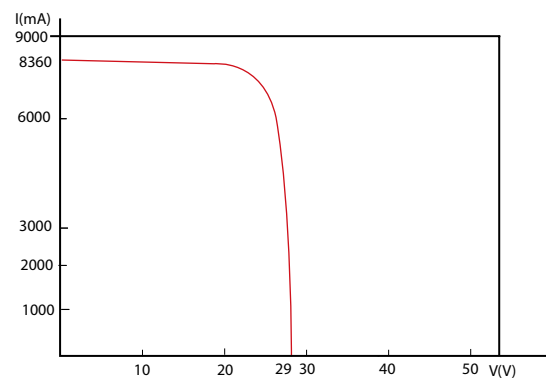
## TEMPERATURE COEFFICIENTS

Power	T <sub>k</sub> (Wp)	-0.45%/°C
Open Circuit Voltage	T <sub>k</sub> (Voc)	-0.37%/°C
Short Circuit Current	T <sub>k</sub> (Isc)	+0.06%/°C

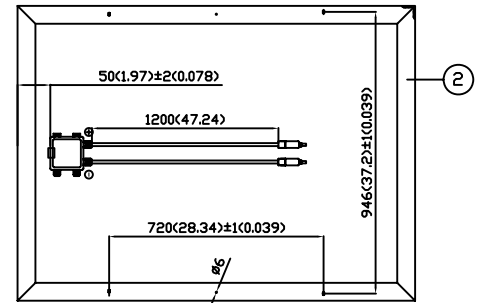
## ABSOLUTE MAXIMUM LIMITS

Max System Voltage	V	1000
Module Operating Temperature	°C	-45—+85
Wind Velocity	Km/h	130
Noct	°C	46±2

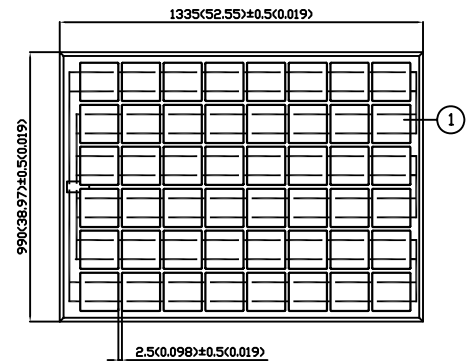
## IV CURVES



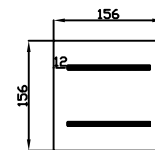
## INSTALLATION DIMENSIONS



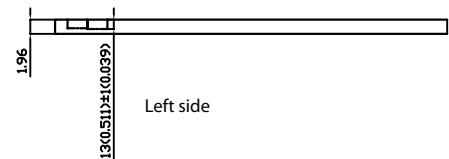
back side



front side



Cell back side



Left side

Certificate	-			
2	Frame	1335×990	1Set	
1	Cell	156×156	48PCS	
Item	Name	Specification	Quantity	Remark
Brand	Yingli solar		180(23)PR1335×990	

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