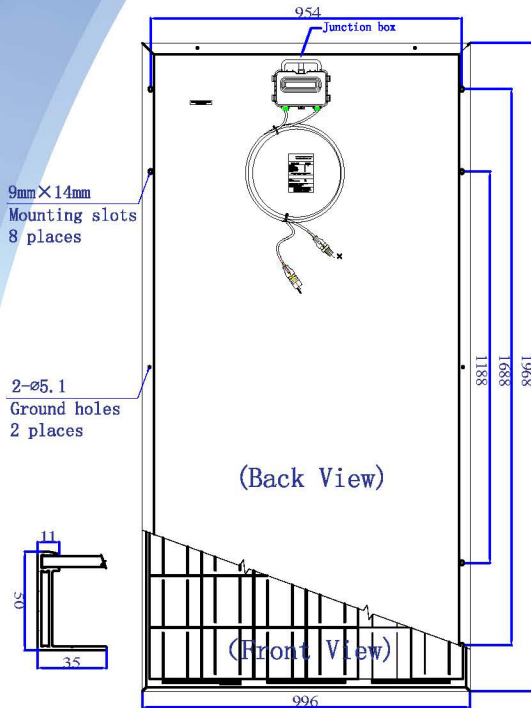
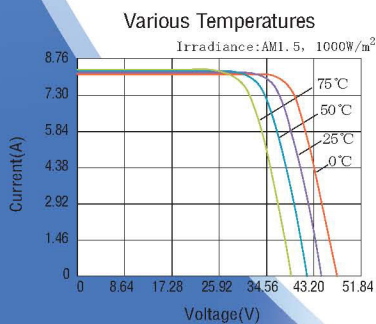
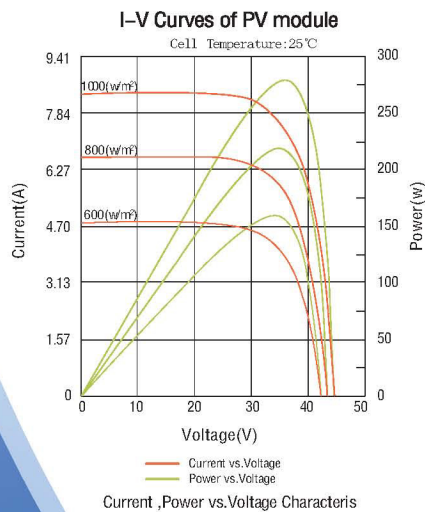


External dimensions



Characteristic curves



Electrical Characteristic

Maximum power (P_{max})	273W	280W	288W	290W	298W	300W	308W
Voltage at P_{max} (V_{mp})	34.85V	35.31V	35.76V	36.20V	36.65V	37.08V	37.52V
Current at P_{max} (I_{mp})	7.89A	7.93A	7.97A	8.01A	8.05A	8.09A	8.13A
Open-circuit voltage (V_{oc})	43.46V	43.92V	44.37V	44.81V	45.24V	45.67V	46.09V
Short-circuit current (I_{sc})	8.56A	8.59A	8.63A	8.66A	8.69A	8.73A	8.76A
Module efficiency(%)	14.0	14.3	14.5	14.8	15.1	15.3	15.6
Power tolerance	± 1%						
Temperature coefficient of I_{sc}	(0.04 ± 0.005)%/°C						
Temperature coefficient of V_{oc}	-(0.32 ± 0.005)%/°C						
Temperature coefficient of power	-(0.44 ± 0.02)%/°C						
NOCT (Air 20°C; Sun 0.8kW/m ² ; wind 1m/s)	45 ± 2°C						
Maximum series fuse rating	15A						
Maximum system voltage	1000VDC						

This data represents the performance of typical products, and is based on measurements made in accordance with IEC61215 corrected to STC (irradiance: 1000W/m², module temperature: 25°C, AM1.5).

Mechanical Characteristics

Dimensions	Length: 1968mm Width: 996mm Depth: 50mm
Weight	24KG
Solar Cells	72 Poly-crystalline Cells (156mm*156mm) in a 6*12 matrix connected in series
Output cables	PVI-F 1*4, cable with polarized weatherproof DC rated ZJRH connectors (MC3 type), symmetrical lengths - 1000mm (-) and 1000mm (+)
Diodes	Schottky by-pass diodes
Construction	Front: High-transmission low-iron, 3.2mm tempered glass; Back: PVDF; Encapsulant: EVA
Frame	Anodized aluminum alloy type 6063T5 Universal frame; Color: silver

Qualification Test Parameters

Temperature cycling range	- 40°C to + 85°C
Humidity freeze, damp heat	85% RH
Static load front and back (e.g. wind)	2,400 pa
Front loading (e.g. snow)	5,400 pa
Hailstone impact	25mm ø at 23 m/s

Module warranty:

10-year limited warranty of materials and workmanship;
10-year limited warranty of 90% power output;
25-year limited warranty of 80% power output.



CHINALIGHT SOLAR

Solar module CLS-290P



High efficiency

- * Applying the high conversion efficiency cells, the maximum power of the module can reach as high as 305W.
- * Excellent low light performance inspected by TUV guarantees our modules work superiorly even under the weak light conditions such as cloudy, foggy and rainy days.



Extended module service life

- * Using UV rays-resistant EVA to maintain the stable output of module.
- * Resistance corrosive Anodize Aluminum Frame makes module possess extraordinary anti-pressure ability to meet 5400 Pa loading requirements.
- * Weather fastness and waterproof back field offer an excellent product quality.



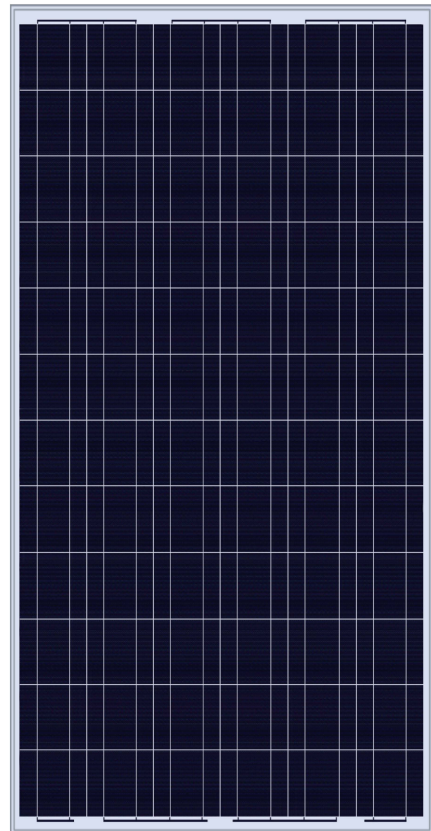
Simple installation

- * Supply contact plug adaptation to general standard in order to reduce the installation costs.
- * Narrow power tolerance $\pm 1\%$ simplifies PV system matching procedure.



Warranty

- * 10 years product warranty;
- * 10 years minimum 90% output;
- * 25 years minimum 80% output
- * Global top insurance company covers the quality of products, perfect compensation procedure to ensure the customers' benefit



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