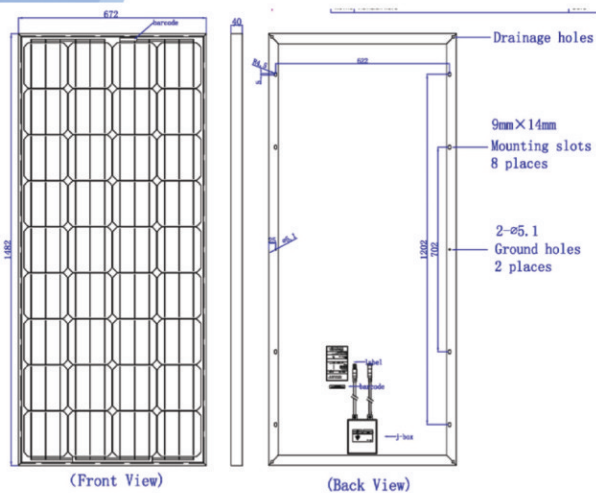


External dimensions



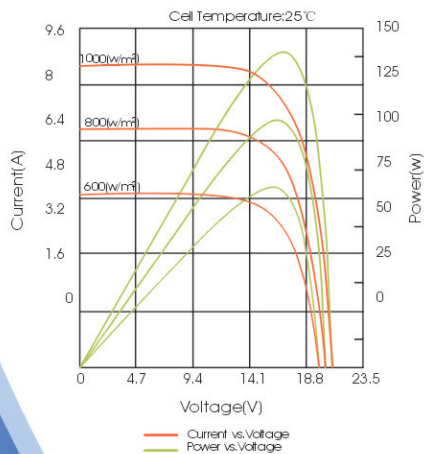
Electrical Characteristic

Maximum power (P_{max})	140W	145W	150W	155W	160W	165W	170W
Voltage at P_{max} (V_{mp})	17.86V	18.28V	18.70V	19.11V	19.51V	19.99V	20.29V
Current at P_{max} (I_{mp})	7.84A	7.93A	8.02A	8.11A	8.20A	8.29A	8.38A
Open-circuit voltage (V_{oc})	22.43V	22.86V	23.26V	23.65V	24.03V	24.39V	24.74V
Short-circuit current (I_{sc})	8.47A	8.55A	8.64A	8.73A	8.82A	8.90A	8.99A
Module efficiency(%)	14.1	14.6	15.1	15.6	16.1	16.6	17.1
Power tolerance	± 1%						
Temperature coefficient of I_{sc}	$(0.04 \pm 0.005)\%/^{\circ}C$						
Temperature coefficient of V_{oc}	$-(0.32 \pm 0.005)\%/^{\circ}C$						
Temperature coefficient of power	$-(0.44 \pm 0.02)\%/^{\circ}C$						
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).

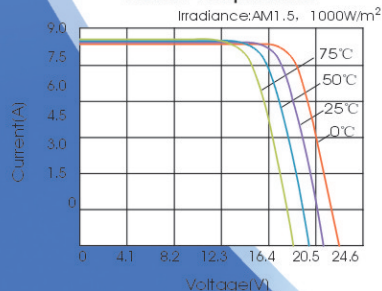
Characteristic curves

I-V Curves of PV module



Current, Power vs. Voltage Characteristics

Various Temperatures



Mechanical Characteristics

Dimensions	Length: 1482mm	Width: 672mm	Depth: 40mm
Weight	13KG		
Solar Cells	36 Mono-crystalline Silicon Cells (156mm*156mm) in a 4*9 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-150M



High efficiency

- * Applying the high conversion efficiency cells, the maximum power of the module can reach as high as 170W.
- * 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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