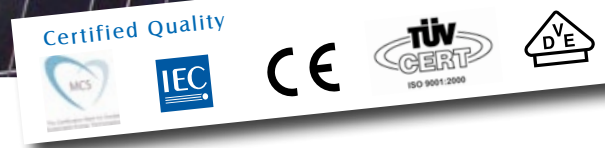


MODULE CPM230-A-96



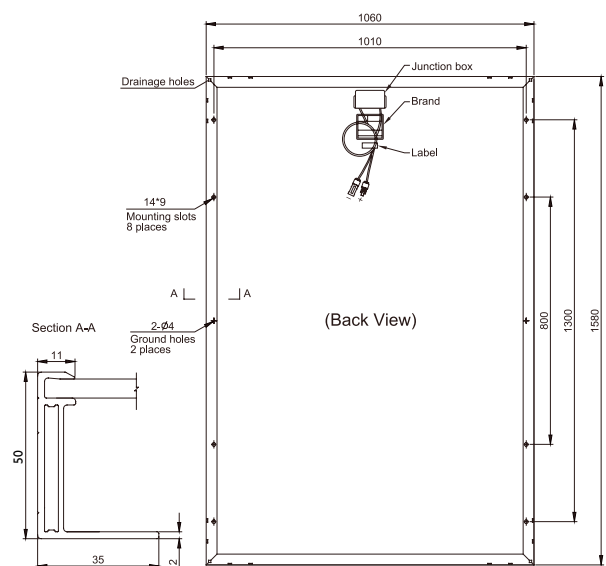
96 pcs 125 x 125 mm monocrystalline silicon cell

The CPM230 series modules consists of 96 pcs 125 x 125 mm monocrystalline silicon solar cells which are in high efficiency, individually characterized and electronically matched before interconnection. Laminated with high quality toughened glass, EVA and TPT, the operating characteristics of solar cells can be ensured under any climatic conditions.

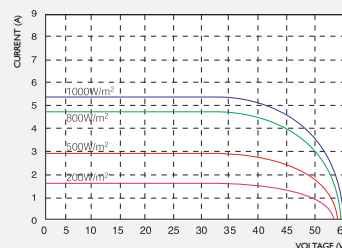
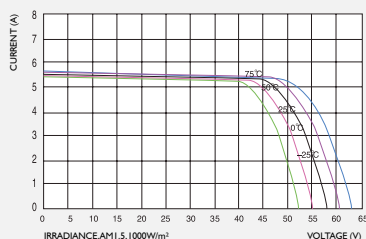
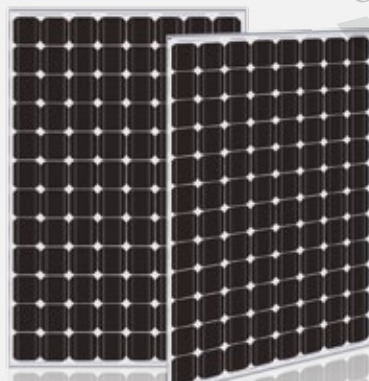
After assembled by anodized aluminum alloy frame and MC type junction box, cable with connector, the CALRAYS solar modules are designed for long service life, easy to install, withstand the storm, high wind and hail impact etc..

The Junction box is available in black or silver. The module we also offer in black.

Module Diagram (measures: mm)



MODULE CPM230-A-96



SPECIFICATIONS

Cell	Monocrystalline silicon solar cells 125 mm × 125 mm
No. of cells and connections	96 (8 × 12)
Dimension of module	1580 mm × 1060 mm × 50 mm

OUTPUT

Cable	4.0 mm ² (TÜV)
Lengths	1100 mm
Connector	MC Type

TEMPERATURE COEFFICIENTS

NOCT		45°C ±2°C
Short-circuit current temperature coefficient	α (Isc)	0.10%/°C
Open-circuit voltage temperature coefficient	β (Voc)	-0.38%/°C
Peak power temperature coefficient	γ (Pmax)	-0.47%/°C

NOCT: Nominal Operating Cell Temperature above data is only for reference

MODULE CPM230-A-96

	240 W	245 W	250 W
Maximum Power (Pmax)	240 W	245 W	250 W
Encapsulation	Glass/EVA/Cells/EVA/TPT		
Size and Number of cells	125 mm × 125 mm 96/8 × 12 pcs		
Power Tolerance	±3%		
Cell Efficiency	16,8	17,3	17,8
Open Circuit Voltage (Voc)	59.5V	59.6 V	59.7V
Short Circuit Current (Isc)	5.50 A	5.52A	5.54A
Maximum Power Voltage (Vmp)	46.9V	47.0V	47.2V
Maximum Power Current (Imp)	5.11A	5.22A	5.30A
Max.syst. Oper. Voltage	1000V		
Diodes	4 by-pass		
Dimension	1580 × 1060 × 50 mm		
Weight	21 kg		
Operate Temp. scope	-40 +85 °C		
Relative humidity	0 to 100 %		
Resistances	227g steel ball fall down from 1m height and 60m/s wind		
Warranty	Pm is not less than 90% in 10 years and 80% in 25 years		

Test condition: @STC 1000W/m² · AM1.5, 25°C