



SAMLEX POWER PRODUCTS



CS6D Series Solar Panels

FEATURES

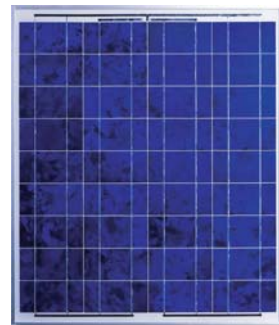
36 High-Efficiency Solar Cells.

Special Aluminum Frame Design: The specially treated frame aluminum substantially increases module endurance against high winds and snow load.

Reinforced Solar Glass: The high-transparency low-iron tempered glass allows maximum light permeability while enhancing stiffness and impact resistance.

Advanced Cell Encapsulation: The interconnected cells are embedded in ultra transparent EVA with multilayer backsheets for additional weather protection.

Optimized Module Surface Area: The distance between the frame edge and the cell circuitry is calculated according to the electrical output optimization.



50 Watts

APPLICATIONS

Power supply for remote telecommunication equipment

Monitoring systems for the oil & gas industry

Traffic, security, environment, and other remote monitoring and signaling systems

Water pumping systems

Rural electrification

Small home power systems

12V and 24V battery charging system

Other industrial and consumer applications

TECHNICAL SPECIFICATIONS

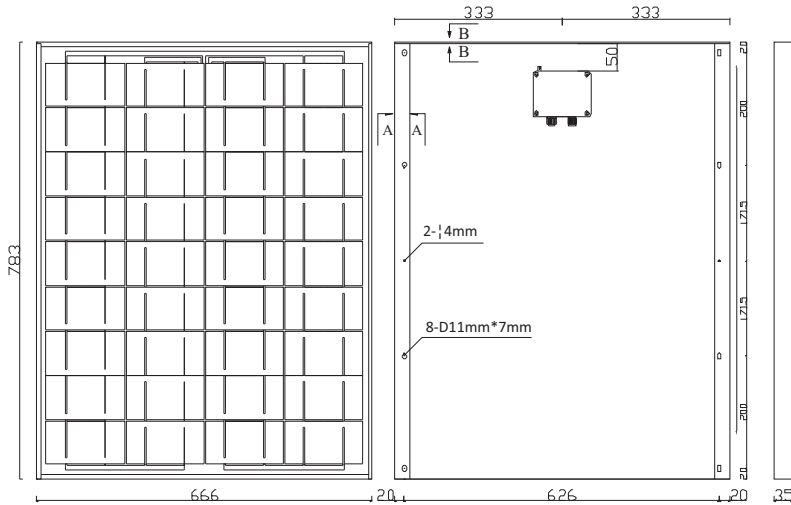
Module type	CS6D-50P
Electrical Specifications	
(Under Standard Test Conditions (STC) of irradiance of 1000 W/m ² , spectrum AM 1.5 and cell temperature of 25°C)	
Maximum Power P _m	50 Watts
Voltage at Maximum Power V _{mp}	17.2 V
Current at Maximum Power I _{mp}	2.90 A
Open Circuit Voltage V _{oc}	21.5 V
Short Circuit Current I _{sc}	3.16 A
Rated Power Tolerance	±5 Watts
Nominal Battery Voltage	12 V
Normal Operating Cell Temperature (NOCT)	45 °C
Temperature Coefficients of P _m	- 0.45%/°C
Temperature Coefficients of V _{oc}	- 0.35%/°C
Temperature Coefficients of I _{sc}	0.060%/°C
Maximum System Voltage	IEC 1000 / ETL 600 V
Cell Information	
Size of Cells	156 × 78 mm
Type of Cells	Polycrystalline
Cells per Module	36 pcs
Grid Pattern (x*y)	4 x 9 pcs
Module Information	
Junction Box	RH0503
Connection	05-1
Dimensions	783 x 666 x 35 mm
Weight	14.4 lbs / 6.5 kg
Safety Certifications	TUV, IEC, CE, ETL, TUV- (TPT), TUV - Junction Box

Technical Specifications subject to change without notification.



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MECHANICAL SPECIFICATIONS



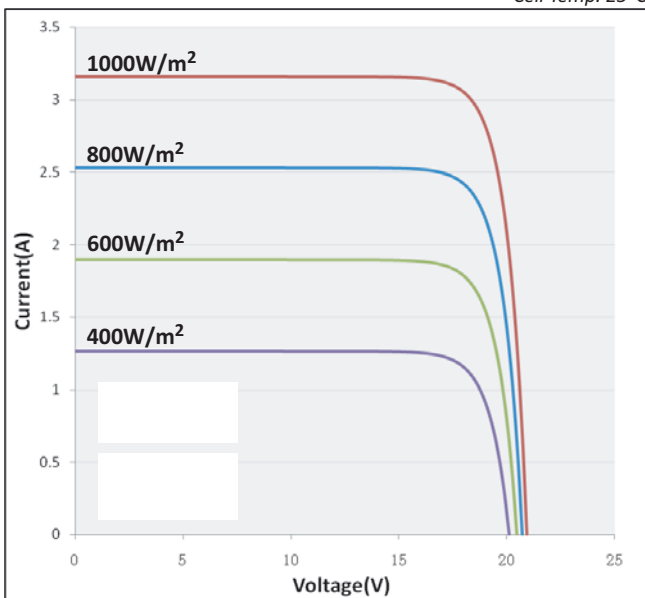
Dimensions		
Length*Width*Depth	mm	783 x 666 x 35
	(in)	(30.8 x 26.2 x 1.4)
Weight	kg (lbs)	12.0 (26.5)

Cells	
Cell Material	Polycrystalline
Number of Cells	36

ELECTRICAL CHARACTERISTICS

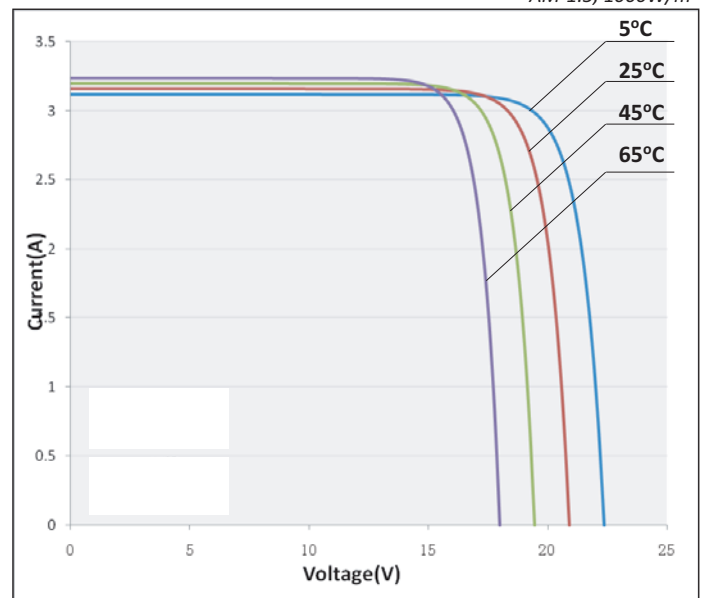
Dependence on Irradiance

Cell Temp. 25°C



Dependence on Temperature

AM-1.5, 1000W/m²



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