JUTA ekoSolar

SOLAR PRODUCTS

HP-85 series Solar Panel



85 WATTS

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 enhanced 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.

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

Solar Module Type	85W M
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 Pm	85Watts
Voltage at Maximum Power Vmp	17.2V
Current at Maximum Power Imp	4.942A
Open Circuit Voltage Voc	22 V
Short Circuit Current Isc	5.519A
Rated Power Tolerance	+/- 3%
Nominal Battery Voltage	12 V
Normal Operating Cell Temperature (NOCT)	45 °C
Temperature Coefficients of Pm	- 0.45%/°C
Temperature Coefficients of Voc	- 0.35%/°C
Temperature Coefficients of Isc	0.060%/°C
Maximum System Voltage	IEC 1000 / ETL 600 V
Cell Information	
Size of Cells	125 × 125 mm
Type of Cells	Monocrystalline
Cells per Module	36 pcs
Grid Pattern (x*y)	4 x 9 pcs
Module Information	
Junction Box	QC0505-1
Connection	MC4
Dimensions	1205 x 545 x 35mm
Weight	8.5 kg
Safety Certifications	CE,ISO9001-2008 TUV, UL-Junction Box

Technical Specifications subject to change without notification.