Schott Applied Power Corporation

High Efficiency Multi-Crystal Photovoltaic Module

165W Maximum Power

Schott's photovoltaic

sapc 165

SCHOTT glass made of ideas

module is designed for large electrical power requirements. Based on the technology of crystal silicon solar cells, this module has superb durability to withstand rigorous operating conditions and is suitable for grid connected systems.

(UL)

PHOTOVOLTAIC MODULE

SPECIFICATIONS

Cell	Multi-crystal silicon solar cells, 125mm square		
No. of cells and connections	72 in series		
Configuration	Nominal 24V DC Output		
Maximum system voltage	DC 600V		
Series fuse rating	10A		
Maximum/Minimum power	165 W (max.)/148.5 W (Min.)		
Dimensions	62" x 32.52" x 1.81"		
Weight	37.47 lbs.		

ABSOLUTE MAXIMUM RATINGS

Parameters	Rating	Unit
Operating temperature	-40 to +90	°C
Storage Temperature	-40 to +90	°C
Dielectric voltage withstood	2200 max.	

OUTPUT TERMINAL

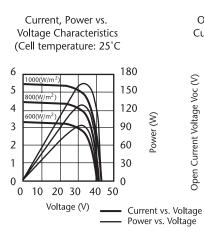
Type of output terminal

Multi-Contact[®] plug & socket connectors

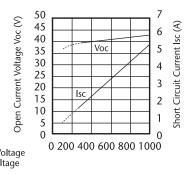
ELECTRO-OPTICAL CHARACTERISTICS

Model					
Parameters	Symbol	Min.	Тур.	Unit	Condition
Open circuit voltage	Voc		43.1	V	
Maximum power voltage	Vmp		34.6	V	Irradiance:
Short circuit current	lsc		5.46	А	1000 W/m ²
Maximum power current	Imp		4.77	А	
Maximum power	Pm	148.5	165.0	W	Module
Encapsulated solar cell efficiency	nc		14.6	%	temperature:
Module efficiency	nm		12.7	%	25°C

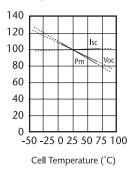
CHARACTERISTICS



Open Circuit Voltage, Short Circuit Current vs. Irradiance Characteristics (Cell temperature: 25°C



Normalized Isc. Voc, Pm vs. Cell Temperature Characteristics



High-power module (165W) using 125mm square multi-crystal silicon solar cells with 12.7% module conversion efficiency.

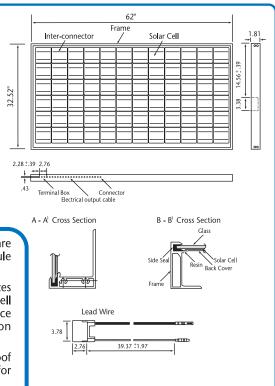
Photovoltaic module with bypass diode minimizes the power drop caused by shade. Textured cell surface to reduce sunlight reflection. Black Surface Field structure to improve cell conversion efficiency: 14.6%

White tempered glass, EVA resin, and weatherproof film along with an anodized aluminum frame for extended outdoor use.

20 Year Limited Power Output Warranty

GRID CONNECTED RESIDENTIAL SYSTEMS OFFICE BUILDINGS • SOLAR POWER STATIONS SOLAR VILLAGES PUMPS • LIGHTING EQUIPMENT TELECOM SYSTEMS • OFF GRID SYSTEMS

OUTLINE DIMENSIONS



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