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Alpha PV 110W

- Encapsulated Design Resists Corrosion
- No Maintenance Required
- Quick and Easy Installation

Alpha silicon solar modules use breakthrough technology perfected by nearly 40 years of manufacturing technology. These modules use a textured cell surface and tempered glass to reduce reflection of sunlight. The anti-reflective coating provides a uniform blue color and increases the absorption of light in all weather conditions. These solar modules can be applied in many areas including building roofs, photovoltaic power plants, telecommunication, hubs, weather stations, broadcast towers, navigation marks, railways and road intersections.



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Alpha PV 110W

Electrical Specifications

Maximum Power (Pmax)	110W
Power Tolerance	±5 %
Maximum Power Voltage (Vmp)	34.6V
Maximum Power Current (Imp)	3.18A
Open circuit Voltage (Voc)	43.4V
Short circuit Current (Isc)	3.47A
Maximum System Voltage	750Vdc
Module Efficiency	12.6 %
Temp. coefficient Voc	-0.35±0.02 %/° C
Temp. coefficient Isc	+0.04±0.0015 %/° C
Temp. coefficient Power	-0.5±0.05 %/° C
Nominal operating cell temperature	47° C±2° C

Cells

Cell Type	Single Crystal Cell
Cell Size	103 x 103 mm
Cell Shape	Quasi Square

Number Cells	72 in series
Encapsulated Solar Cells Efficiency	14.8 %
Standard Test Conditions	
AM	1.5
Irradiation	1000 W/m ²
Tc	25° C
Mechanical Specifications	
Length (in/mm)	51.96/1320
Width (in/mm)	25.98/660
Depth (in/mm)	1.37/35
Mounting Length (in/mm)	36.06/916
Mounting Width (in/mm)	24.37/619
Weight lbs (kg)	23.14/10.5
Front glass thickness	3.2 mm
Encapsulant	EVA
Back side	TPT
Absolute Maximum Rating	
Operating Temperature	-40 to +90° C
Storage Temperature	-40 to +90° C
Dielectric Isolation Voltage	1000 Vdc max
Maximum Wind Resistance	60m/s (134 mph)
Maximum Hail diameter @ 80Km/h (in/mm)	1.0 / 25

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