

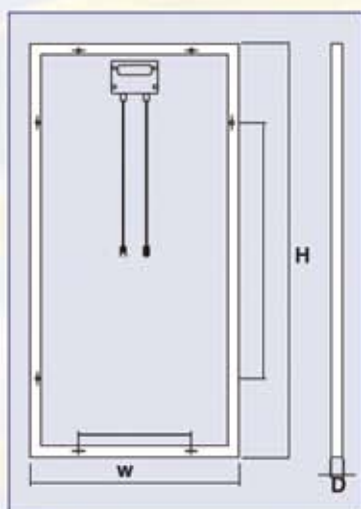
STANDARD MODULES (Typical Specifications)

Mono or Multi Crystalline PV Modules

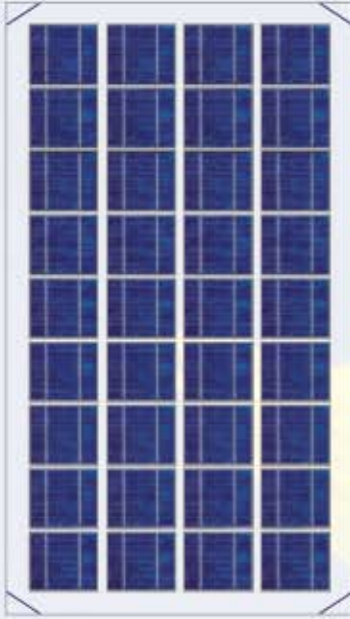
- Manufactured as per IEC61215 and UL1703 standards.
- Modules manufactured only with guaranteed and certified raw materials of highest quality.
- Low iron tempered glass, EVA laminate, waterproof Tedlar / Junction Box and Strong Anodized Aluminum frame, yield long life modules which can withstand all weather conditions such as hail, ice, strong winds etc.
- 5years warranty on complete module.
- 25 years limited warranty on power output
- We can further more customize the products (i.e. design, power, dimensions etc.) according to the customer's needs against bulk orders.

Alpex Solar crystalline solar modules offer high performance and are designed specifically to meet our clients demands for residential, commercial or industrial use, from small installations to large multi-Megawatt power plants. They find use in various applications such as Stand alone or Grid connected Systems, PV Roofs, Water Pumping, Street Lights, Telecommunications, Marine and many more.

Technical Data (Under STC)



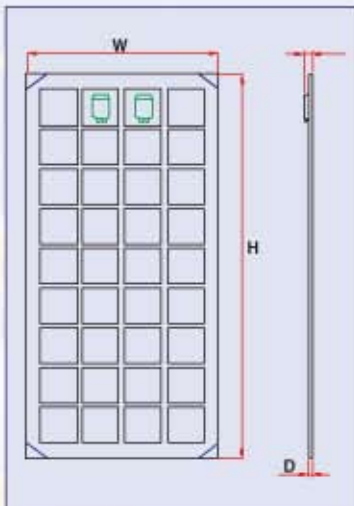
Model Series	80 Watt	160 Watt	130 Watt	220 Watt	260 Watt
Cell Size	125mm		156mm		
Cell Count	36	72	36	60	72
Open Circuit Voltage (V_{oc})	21 - 22	42 - 45	21 - 22	35 - 37	42 - 45
Rated Voltage (V_m)	17-18	34-35.5	17-18	27-28.5	34-35.5
Rated Current (I_m)	4.4-5.0	4.4-5.0	7.4-8.0	7.4-8.0	7.4-8.0
Short Circuit Current (I_{sc})	4.7-5.5	4.7-5.5	8.0-8.3	8.0-8.3	8.0-8.3
Maximum Power (P_{max})	85	180	140	230	280
Total No. of strings	4	6	4	6	6
Overall Dimension (mm)	1188x530x35	1574x786x35	1471x655x35	1630x982x35	1946 x 982 x 35
Weight (lbs)	17	31	26	50	60
Temp. Coeff. of Voltage (mv / °C) -80 ± 10	-160 ± 20	-80 ± 10	-132 ± 10	-150 ± 20	
Temp. Coeff. of I_{sc} (% / °C)		0.060 ± 0.015		0.060±0.015	
Temp. Coeff. of Power (% / °C)		-0.5 ± 0.05		-0.5 ± 0.05	
Maximum System Voltage		600		1000	
Maximum Series Fuse. (A)		10		20	
NOCT (°C)		46 ± 3 °C		46 ± 3 °C	
Operating Temperature (°C)		-40 to + 85 °C		-40 to + 85 °C	



BIPV MODULES (Glass - Tedlar)

- Manufactured as per IEC61215 and UL1703 standards.
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Technical Data (Under STC)



Cell Size	mm	125*125	125*125	125*125
No. of cells	Nos.	14	18	20
Glass Thickness		4mm	4mm	4mm
Peak power	Pmax	18.75 W	36.97 W	41.08 W
Rated Voltage	Vmp	6.80 V	8.75 V	9.72 V
Rated Current	Imp	4.23 A	4.23 A	4.23 A
Open Circuit Voltage	Voc	8.46 V	10.87 V	12.08 V
Short Circuit Current	Isc	4.74 A	4.74 A	4.74 A
W*H*D (mm)		450*1000*10	450*1000*10	675*1310*10
Weight (Kg)		9.20	9.20	17.90

Operating Limits

Maximum System Voltage	1000 V
Max Wind Speed	130 Km/h
Max Hail Size	25 mm
Max Hail Speed	23 m/s
Ambient Temperature	-40 °C to + 85 °C

Alpex Solar (A Renewable Energy Division of Alpex Exports Pvt. Ltd.)

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Aesthetics**

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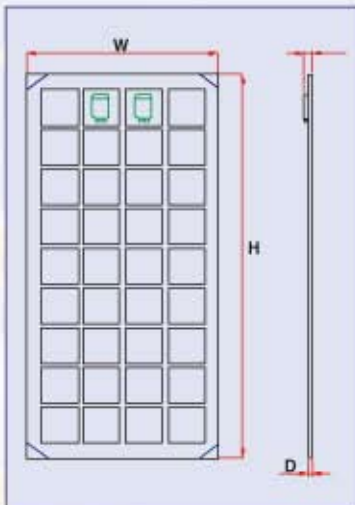
**Protection from
weather**



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Technical Data (Under STC)



Cell Type	Unit	6" Poly	5" Poly	6" Poly
Cell Size	mm	156*156	125*125	156*156
No. of cells	Nos.	18	35	36
Glass Thickness		4mm	4mm	4mm
Peak power	Pmax	70.0 W	71.89 W	135.00 W
Rated Voltage	Vmp	9.15 V	17.01 V	18.00 V
Rated Current	Imp	7.8 A	4.23 A	7.5 A
Open Circuit Voltage	Voc	10.90 V	21.14 V	21.80 V
Short Circuit Current	Isc	8.50 A	4.74 A	8.30 A
W*H*D (mm)		671*1306*4	675*1310*10	980*1640*5
Weight (Kg)		9.10	17.90	18.90

Operating Limits

Maximum System Voltage	1000 V
Max Wind Speed	130 Km/h
Max Hail Size	25 mm
Max Hail Speed	23 m/s
Ambient Temperature	-40 °C to + 85 °C

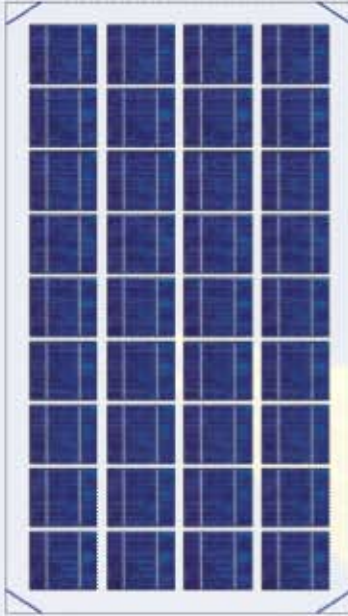
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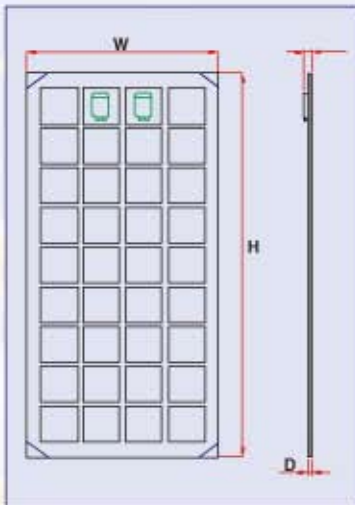
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BIPV MODULES (Glass - Glass)

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Technical Data (Under STC)

Cell Type	Unit	5" Poly	5" Poly	5" Poly	5" Poly
Cell Size	mm	125*125	125*125	125*125	125*125
No. of cells	Nos.	14	18	25	35
Glass Thickness		4mm/4mm	4mm/4mm	4mm/4mm	4mm/4mm
Peak power	Pmax	18.75 W	36.97 W	51.35 W	71.89 W
Rated Voltage	Vmp	6.80 V	8.75 V	12.15 V	17.01 V
Rated Current	Imp	4.23 A	4.23 A	4.23 A	4.23 A
Open Circuit Voltage	Voc	8.46 V	10.87 V	15.10 V	21.14 V
Short Circuit Current	Isc	4.74 A	4.74 A	4.74 A	4.74 A
W*H*D (mm)		450*1000*10	450*1000*10	675*1310*10	675*1310*10
Weight (Kg)		9.20	9.20	17.90	17.90

Operating Limits

Maximum System Voltage	1000 V
Max Wind Speed	130 Km/h
Max Hail Size	25 mm
Max Hail Speed	23 m/s
Ambient Temperature	-40 °C to + 85 °C

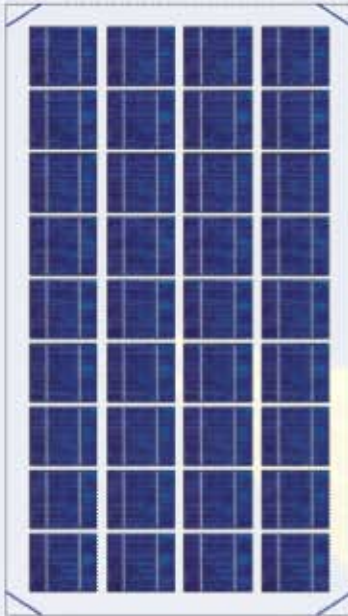
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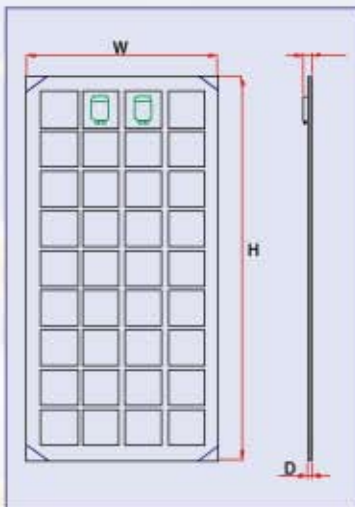
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Technical Data (Under STC)

Cell Type	Unit	5" mono	5" mono	5" mono	5" Poly
Cell Size	mm	125*125	125*125	125*125	125*125
No. of cells	Nos.	36	36	36	54
Glass Thickness		4mm/8mm	4mm/8mm	4mm/8mm	4mm/4mm
Peak power	Pmax	60.00 W	85.00 W	65.00 W	130.00 W
Rated Voltage	Vmp	17.10 V	18.20 V	17.00 V	27.50 V
Rated Current	Imp	3.51 A	4.67 A	3.82 A	4.73 A
Open Circuit Voltage	Voc	21.0 V	21.90 V	21.10 V	33.50 V
Short Circuit Current	Isc	4.00 A	4.96 A	4.46 A	4.93 A
W*H*D (mm)		648*1304*14	648*1304*14	648*1304*14	960*1300*10
Weight (Kg)		24.80	24.80	24.80	25.00

Operating Limits

Maximum System Voltage	1000 V
Max Wind Speed	130 Km/h
Max Hail Size	25 mm
Max Hail Speed	23 m/s
Ambient Temperature	-40 °C to + 85 °C

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