

# DIAMOND

PV MODULES WITH X-FACTOR



**POLYCRYSTALLINE  
MODULES**

**60 CELLS**

**260Wp-275Wp  
POWER OUTPUT RANGE**

Founded in 1997, Alpex Solar Pvt . Ltd. is a multi-location, multi-business enterprise with diverse business activities consisting of:

- » Solar Panel Manufacturing
- » International Trading

Headquartered in Greater Noida, India, the state of the art offices are located in New Delhi, Mumbai, Tirupur, Jaipur, Ludhiana, Surat, Kolkata, Seoul and Sydney.

Our world class manufacturing units are located in Nalagarh (HP) and Greater Noida (UP). These fully automatic plants have a manufacturing capacity of 450 MW slated to go up to 1 GW soon. With a strong team of 350 professionals/workers and manufacturing experience of more than 10 years, we aim to become a significant global player in the field of highly specialised high power photovoltaic modules which are not only world class but also most cost effective.



ISO 9001 : 2008 • ISO 14001 : 2004  
OHSAS 18001 : 2007 CERTIFIED COMPANY (100% EOU)



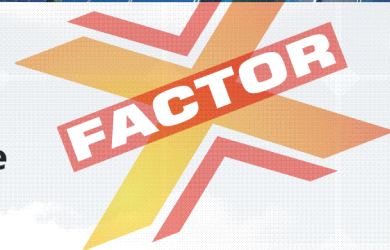
**Xtra Long Life**



**Xtremely Compact Size**



**Xtra Energy / Power**



First indian manufacturer to make 4 BB & 5 BB modules.

First indian manufacturer to make glass-glass modules.

Super BOM and super efficient cell for super performance.

Wakes up early, sleeps late.

Positive tolerance & PID free with RFID.

MNRE / IEC approved.

Rated No. 7 in photon lab test report Germany.

Fully automated robotic plants.



SOLAR POWER PLANTS

SOLAR PV PANELS

SOLAR PUMPS

SOLAR EPC

SOLAR ELECTRICITY  
(RESCO)

# DIAMOND

## PV MODULES WITH X-FACTOR

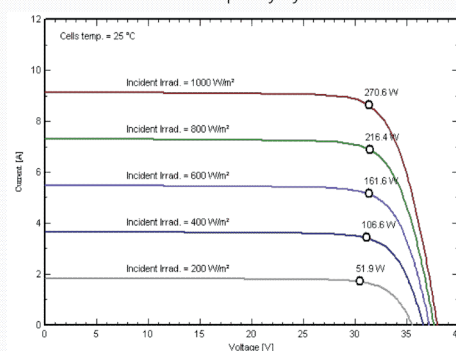
260Wp - 275Wp Poly Crystalline-60Cells



### Electrical Data (Only positive Tolerance)

Peak Power (Wp) Positive Tolerance up to 4.99 Wp I	ALP-260	ALP-265	ALP-270	ALP-275
Voltage at maximum Power point, Vmp (A)	30.60	30.78	30.93	31.47
Current Maximum Power Point (A)	8.50	8.61	8.73	8.74
Open Circuit Voltage Voc (V)	37.80	37.87	37.98	38.70
Short Circuit Current, isc (A)	8.93	9.08	9.15	9.33
Module Efficiency (%)	15.83	16.13	16.44	16.74
Maximum System Voltage (V)	1000/1500	1000/1500	1000/1500	1000/1500

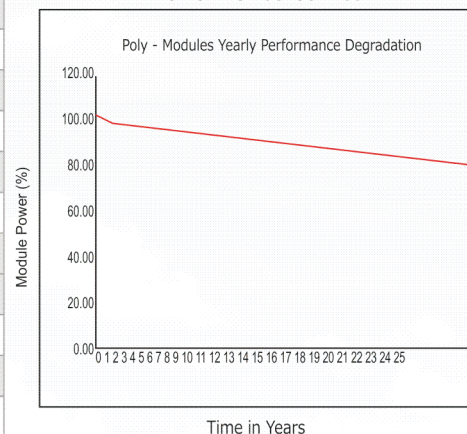
IV Curves for 270 Wp Polycrystalline Module



### Mechanical Data

Length x Width x Height	1656 x 992 x 35mm
Weight	18.10 kg
Junction Box	IP 65/67 rated with 3 Bypass Diodes Cables & Connectors)
Cable & Connectors	1000 mm (MC4 Compatible)
Application Class	Class A (Safety class II)
Superstrate	High transmission, low iron tempered glass, AR Coated
Cells	60 poly crystalline Solar Cells
Cell Encapsulant	EVA Ethylene vinyl acetate
Back Sheet	Multilayered Back sheet (white colour)
Frame	Anodized Aluminium frame
Mechanical Load test	5400Pa
Maximum Series Fuses Rating	15A

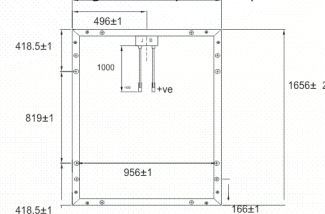
Performance Curves



### Temperature Coefficient (Tc) permissible Operating Conditions

NOCT*	46°C ± 2°C
Coefficient Power (%/°C)	-0.39%/°C
Coefficient Voltage (%/°C)	-0.31%/°C
Coefficient Current (%/°C)	0.05%/°C
Temperature Range	-40°C to 85°C

Drawing of 260Wp - 275Wp Module



### Warranty and Certifications

Performance*	Power output of 90% at the end of 10 Years and 80% at the end 25 Years
Approved Certificates	IEC 61215 Ed2, IEC 61730, IEC 61701, IEC 62716, UI1703, IEC 62804**
* Refer to Alpex Modules Warranty Document	
** IEC 62804 Standard still not enforced	

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

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