## For a Free Quote:

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Email: contact@energypal.com



Solar Panel Guide
Specification Data Sheet

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# :DIAMONDflex

#### **PV MODULES WITH X-FACTOR**

50Wp- 160Wp Flexible Poly Crystalline



#### **Electrical Specifications**

Model	ALP-FP-50	ALP-FP-80	ALP-FP-110	ALP-FP-160S	ALP-FP-160R
Peak Power (Pmax)	50Wp	80Wp	110Wp	160Wp	160Wp
Rated Voltage (Vmp)	17.70 V	17.70 V	17.70 V	17.70 V	17.70 V
Rated Current (Imp)	2.85 A	4.55 A	6.22 A	9.05 A	9.05 A
Open Circuit Voltage (Voc)	21.40 V	21.40 V	21.40 V	21.40 V	21.40 V
Short Circuit Current (Isc)	3.10 A	4.85 A	6.75 A	9.45 A	9.45 A
Module Efficiency (%)	11.61	13.20	14.49	15.38	14.14
Tolerance	0~+4.99 Wp	0~+4.99 Wp	0~+4.99 Wp	0~+4.99 Wp	0~+4.99 Wp
Maximum System Voltage (Vdc)	50V	50V	50V	50V	50V

#### **Mechanical Specifications**

Cell Matrix	4X9	4X9	4X9	6X6	4X9
Module Size (L) x (W) $\pm$ 2 mm Module Size (L) x (W) $\pm$ .07 in	590x730 mm 23.23x28.74 in	830x730 mm 32.68x28.74 in	1040x730 mm 40.94x28.74 in	1040x1000 mm 40.94x39.37 in	1550x730 mm 61.02x28.74 ir
Module Thickness at Cell Level Max Thickness at J-Box Level	3 mm 22 mm	3 mm 22 mm	3 mm 22 mm	3 mm 22 mm	3 mm 22 mm
Weight Kg / Ibs	1.15 kg / 2.54 lbs	1.56 kg /3.44 lbs	1.92 kg / 4.23 lbs	2.60kg / 5.73 lbs	1.8 kg / 6.17 lb
Bend Angle (Degree)	Upto 30°	Upto 30°	Upto 30°	Upto 30°	Upto 30°
Waterproof	Yes	Yes	Yes	Yes	Yes
Frame	Frameless	Frameless	Frameless	Frameless	Frameless
Junction Box	2.5mm² Cable with Mc4 Connectors	2.5mm² Cable with Mc4 Connectors	2.5mm² Cable with Mc4 Connectors	4mm² Cable with Mc4 Connectors	4mm² Cable with Mc4 Connectors

#### **Temperture Coefficient**

Normal Operating Cell Temperature (NOCT)	46°C ± 2°C
Temperature Coefficient of Power	-0.39 % / °C
Temperature Coefficient of Voltage	-0.31 % / °C
Temperature Coefficient of Current	0.05 % / °C

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

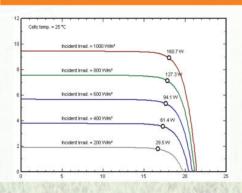
Head Office / Factory :

Plot No. I- 25-26, Site-5, Surajpur Industrial Area, Kasna Greater Noida -201306, Gautam Budh Nagar (UP)

Factory:

Village Berson, Post Manjholi, Nalagarh - 174101, Solan (HP)

# Typical IV Curves for 160Wp Model



Toll Free: 1800 11 2573 Email: info@alpexonline.com Website: www.alpexsolar.com

# **DIAMOND**flex

**PV MODULES WITH X-FACTOR** 



# **FLEXIBLE POLY CRYSTALLINE MODULES**

### 50Wp-160Wp POWER OUTPUT RANGE

Founded in 1997, Alpex Solar Pvt . Ltd. is a multi-location, multi-business enterprise with diverse business Xtra Long Life 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

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 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)

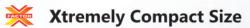




FACTOR







- Manufactured in fully automatic robotic plant.
- Fully waterproof, ideal for boats, caravans, motorhomes, camping. Marine grade and anti - corrosive.
- Lightweight PV module with onboard solar cable and MC4 connector.
- than 10 years, we aim to become a Completely glass and aluminium frame free module.
  - Low system installation costs, can be installed with adhesive or screws
  - Super BOM for super performance.
  - Flexible upto 30 degree.









**SOLAR POWER PLANTS SOLAR PV PANELS SOLAR PUMPS** SOLAR ELECTRICITY **SOLAR EPC** (RESCO)