



FP solar modules are particularly designed for solar power systems generating eco-friendly and reliable energy from the sun, which provides an ideal solution for various applications where no grid connection is available.

### CONSTRUCTION FEATURES

- Strong anodized aluminum frames to strengthen the load and wind resistance.
- High transparency low iron tempered glass with stiffness and impact resistance
- Reliable bypass diodes to prevent overheating (hot spot effect) and to minimise power loss by shading.
- Certified quality management (ISO 9001) guarantee best quality of products

### APPLICATIONS

- Large on/off-grid solar power station
- Commercial/industry building roof-top system
- Rural electrification
- Solar pumping systems

### Temperature coefficients

Model Type	FP160WP-24	FP275WP-24	FP330WP-24
NOCT: Nominal Operating cell Temperature	45 +/-2°C	45 +/-2°C	45 +/-2°C
Voltage Temperature Coefficient (Voc)	-0.36% /°C	-0.36% /°C	-0.31% /°C
Current Temperature Coefficient (Isc)	+0.033 % /°C	+0.06 % /°C	+0.06 % /°C
Power Temperature Coefficient (Pmpp)	-0.44% /°C	-0.44% /°C	-0.41% /°C
Minimum power tolerance	+/-3%	+/-3%	+/-3%

### Mechanical Data

Solar Cell Poly-crystalline	72(6 x 12) 156 x 87mm	1640 x 992 x 35mm	1640 x 992 x 35mm
Front Glass	3.2mm tempered	3.2mm tempered	3.2mm tempered
Frame	Anodized aluminium	Anodized aluminium	Anodized aluminium
Junction box		IP 65 rated	
Output cables		900mm length cable/compliable with MC IV connectors	

### Electrical Data

Nominal peak power (Wp)	160W	275W	330W
Nominal voltage (Vmp)	35.0V	32.0V	37.3V
Nominal current (Imp)	4.58A	8.60A	8.85A
Open-circuit voltage(Voc)	44.0V	39.1V	45.9V
Short-circuit current (Isc)	5.08A	9.34A	9.26A
Module Efficiency	14.5%	17%	17%
Operating temperature	-40°C to +85°C	-40°C to +85°C	-40°C to +85°C
Maximum system voltage	1000V DC	1000V DC	1000V DC
Weight	16.2Kg	19.5Kg	22Kg
Dimension	1100 x 990 x 35mm	1640 x 992 x 35mm	1956 x 992 x 40mm

