

## MODEL: 185W/ 200W/ 275W

### Designed specially for rooftops

Integrates with roofing surface

- No mounting hardware
- No roof penetrations
- No wind load
- Low profile

Flexible module

- Fits many roof types
- Durable, non-breakable
- Light weight
- 3.3 kg/m<sup>2</sup> (0.68 lb/ft<sup>2</sup>) with adhesive



### More energy per roof

**High efficiency CIGS**

- 11.4% to 12.7% aperture efficiency
- 50% more efficient than flexible a-Si

**High performance**

- Performs in all light conditions
- Shade tolerant
- Covers entire roof area
- Lays flat. No tilt required
- Minimum module spacing required

### Lower installed system costs

Large format module in six power outputs

- 90-300 Watts
- 0.49m width x lengths of 2.0, 3.9 or 5.7m
- 30% to 40% savings in BOS & installation costs

### How Power FLEX™ BIPV compares

Location: Munich

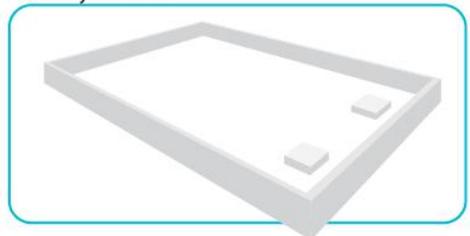
Fixed Area Installation



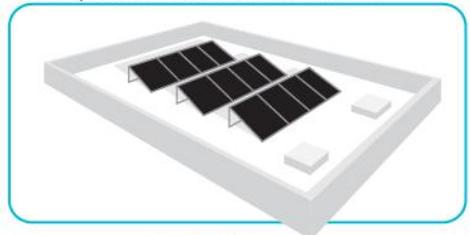
- PowerFLEX™ BIPV
- a-Si laminate (flat)
- CIGS (tubes)
- c-Si (tilted)
- CdTe (tilted)

### More power per roof with lower BOS & installation costs

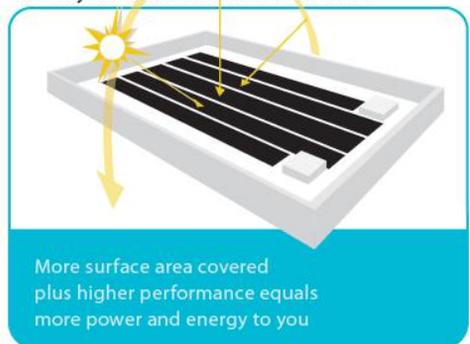
This is your roof



This is your roof with tilted solar panels



This is your roof with PowerFlex™ BIPV



### SINOLTECH COOPERATION WITH HANERGY:

SINOLTECH becomes authorized cooperator with Hanergy in year 2015.

Representing brand "Global Solar", "Miasole" and "Solibro" CIGS Modules in overseas market.

SINOLTECH keep regular stocks of Hanergy CIGS flex module and Solibro BIPV module.

Capable of prompt delivery within 5 working days.

SINOLTECH produce and represent High Quality Solar Products Only.

Our professional product knowledge, quick customer response, responsible after sale service will make your whole purchase process worry-free!

## MODEL: 185W/ 200W/ 275W

### Electrical Specifications

Capacity rating	Pmax	275W	200W	185W
Tolerance of Pmax	%	+10 / -7%	+10 / -7%	+10 / -7%
Module aperture area efficiency	%	11.5%	12.6%	11.7%
Rated voltage	Vmpp	51.5V	36.2V	34.7V
Rated current	Impp	5.3A	5.5A	5.3A
Open circuit voltage	Voc	67.6V	46.4V	45.6V
Short circuit current	Isc	6.3A	6.4A	6.3A

Note 1: Standard Test Conditions (STC): Cell Temperature at 25° C; Solar irradiance intensity of 1000 W/m<sup>2</sup>; AM1.5 solar reference spectrum (ASTM E892)

Note 2: Average efficiency is calculated using the aperture area of the module : 0.79m<sup>2</sup> for 90/100W, 1.59m<sup>2</sup> for 185/200W, and 2.38m<sup>2</sup> for 275/300W

Note 3: Electrical parameters are +/-10% unless stated otherwise

### Temperature Coefficients

Maximum power	Pmax	-0.43 %/°C
Voltage at Maximum Power	Vmax	-0.38 %/°C
Open circuit voltage	Voc	-0.33 %/°C
Short circuit current	Isc	-0.03 %/°C

Note: Relative to Standard Test Conditions(STC):

Solar irradiance intensity of 100W/m<sup>2</sup>;

AM1.5 Solar reference spectrum (ASTM E892)

### Low-Light Performance

Intensity	Relative Efficiency
1000 W/m <sup>2</sup>	100%
500 W/m <sup>2</sup>	99%
200 W/m <sup>2</sup>	91%

Note: Relative to Standard Test Conditions(STC): Cell Temperature at 25°C; AM1.5 solar reference spectrum(ASTM E892)

### Mechanical Specifications

Model Numbers	FG-1BT(M or N)-(275)	FGFG-4BT(M or N)-(185 or 200)
	Note: where M is for mastic or N is for no mastic, and 90,100,185,200,275,or 300 indicate wattage	
Dimensions	5745*494* <3 mm	3881*494* <3 mm
Weight-without adhesive	7.2 kg(2.5 kg/m <sup>2</sup> )± 5%	4.9 kg(2.6 kg/m <sup>2</sup> )± 5%
Weight-with adhesive	9.3 kg(3.3 kg/m <sup>2</sup> )± 5%	6.3 kg(3.3 kg/m <sup>2</sup> )± 5%
Junction Box-Top mounted	TE Connectivity SOLARLOK Micro Junction Box with 4mm <sup>2</sup> dual rated cables and SOLARLOK connectors	
Top surface material	Non-stick ETFE	
Solar cells	108, 72 or 36 CIGS cells (210 mm*100 mm)	
Adhesive	ADCO Heliobond PVA 600BT butyl mastic	
Hot Spot Protection	Bypass diodes at each cell; 1 at junction box	
Materials	Lead free and exempt from RoHS requirements	
Maximum series fuse rating	10 Amp	

### Operating Conditions

Temperature range	-40 to + 85 °C
Maximum System Voltage	1000 VDC IEC, 600VDC UL

### Certifications and Warranty

EN 61646, EN 61730, UL 1703
Materials and workmanship - 5 years
Power output - 25 years (90% @10 yrs; 80% @ 25 yrs) Limited Warranty

### Contact Us:

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