

MODEL: FLEX-03N

High Power Density in a Flexible Form Factor

KEY FEATURES:

- Record efficiency levels in a CIGS flexible form factor
- Low installed weight at less than 2.2 kg/m2(<0.5 lb/ft2)
- No penetrations, ballast or racking required
- Applicable for high wind load and high seismic hazard areas
- Bypass diodes reduce PV system shading losses
- Directly bonds to many approved surfaces

RELIABILITY AND SAFETY

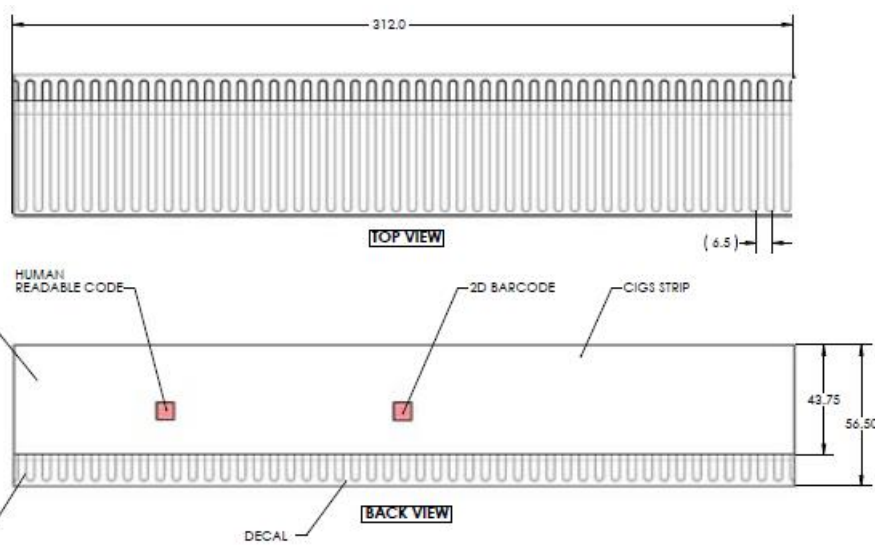
- IEC 61646 & IEC 61730
- UL 1703

WARRANTY

- 5 years workmanship
- 5/10/25 years warranty against power loss



CIGS SOLAR CELL



Thin-film CIGS solar cells on stainless steel substrate have high efficiency levels and provide significant advantages over conventional, rigid solar cells.

Cell Features:

- Efficiency level of up to 16.5% in a flexible form factor.
- Thin - 0.33mm
- Lightweight - 7.5 gm
- Ideal for many specialized uses. Versatile cell architecture means the size can be modified to suit various applications.
- Bendable and shatter-proof

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!

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Electrical Specifications

| Capacity rating | Pmax | 110W | 115W | 120W | 125W |
|---------------------------------|------|----------|----------|----------|----------|
| Tolerance of Pmax | % | +5 / -0% | +5 / -0% | +5 / -0% | +5 / -0% |
| Module aperture area efficiency | % | 14.4% | 15.0% | 15.7% | 16.4% |
| Maximum Power Voltage | Vmpp | 28.5V | 29.0V | 29.5V | 30.0V |
| Maximum Power Current | Imp | 3.87A | 3.97A | 4.07A | 4.16A |
| Open circuit voltage | Voc | 36.5V | 36.8V | 37.1V | 37.4V |
| Short circuit current | Isc | 4.70A | 4.70A | 4.70A | 4.70A |

Standard Test Conditions (STC): Cell Temperature at 25 ° C; Solar irradiance intensity of 1000 W/m²; AM1.5 solar reference spectrum (ASTM E892)

Thermal Characteristics

| | | |
|---------------------------------|------|------------|
| NOCT | [°C] | 48 |
| Temperature Coefficient of PMPP | Vmax | -0.40 %/°C |
| Temperature Coefficient of VOC | Voc | -0.36 %/°C |
| Temperature Coefficient of ISC | Isc | 0.003 %/°C |

Note: Relative to Standard Test Conditions(STC):
Solar irradiance intensity of 100W/m²;
AM1.5 Solar reference spectrum (ASTM E892)

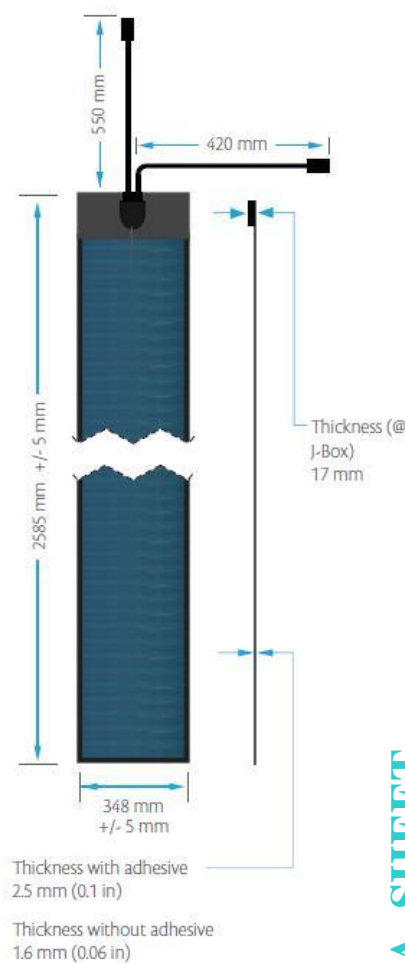
Low-Light Performance

| Intensity | Relative Efficiency |
|-----------------------|---------------------|
| 1000 W/m ² | 100% |
| 500 W/m ² | 99% |
| 200 W/m ² | 91% |

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

Mechanical Specifications

| | |
|--------------------------------------|---|
| Model Numbers | FLEX-03N SERIES |
| Length | 2585mm |
| Width | 348mm |
| Thickness, Maximum at J-Box* | 17mm |
| Weight(Module without adhesive) | 1.6 kg |
| Weight(Module with adhesive) | 1.9 kg |
| Weight/Area(Module without adhesive) | 1.8 kg/m ² |
| Weight/Area(Module with adhesive) | 2.2 kg/m ² |
| Junction Box Type | IP68 |
| Cable connections | Amphenol H4 |
| Cell type | Copper Indium Gallium Diselenide (CIGS) |



Operating Conditions

| | |
|----------------------------|-------------------------|
| Temperature range | -40 to + 85 °C |
| Maximum System Voltage | 1000 VDC IEC, 600VDC UL |
| Maximum Series Fuse Rating | 10A |

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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