Customized Model: FLEX-03NE-135W

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

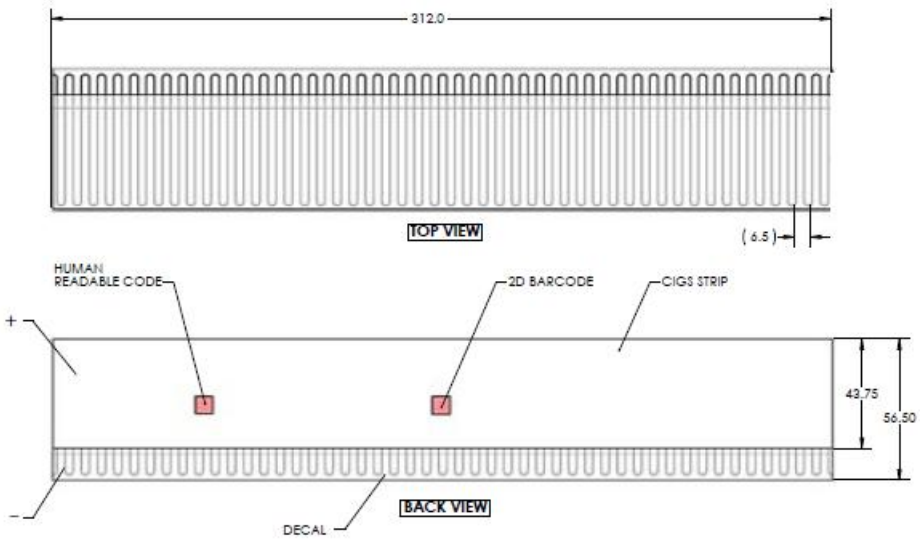
RELIABILITY AND SAFETY

· 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 fl exible 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 COOPERTION 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!

TECHNICAL DATA SHEET

MODEL: FLEX-03NE-135W

Electrical Specifications

Capacity rating	Pmax	135W
Tolerance of Pmax	%	+10 / -0%
Module aperture area efficiency	%	14.4%
Maximum Power Voltage	Vmpp	36.4V
Maximum Power Current	Impp	3.89A
Open circuit voltage	Voc	45.4V
Short circuit current	Isc	4.66A

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	[℃]	48
Temperature Coefficient of PMPP	Vmax	-0.40 %℃
Temperature Coefficient of VOC	Voc	-0.36 %℃
Temperature Coefficient of ISC	Isc	0.003 %℃

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

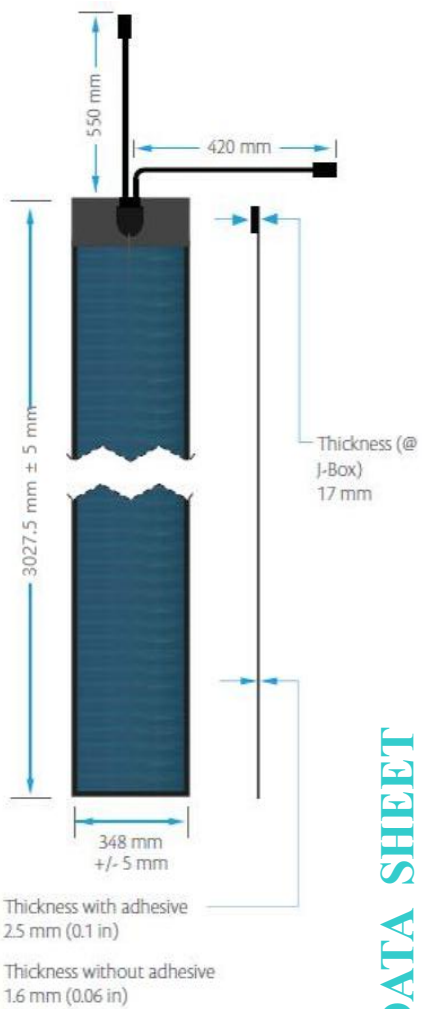
Low-Light Performance

Intensity	Relative Efficiency
1000 W/m²	100%
500 W/m²	99%
200 W/m²	91%

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

Mechanical Specifications

Model Numbers	FLEX-03NE-135W
Length	3027.5mm
Width	348mm
Thickness, Maximum at J-Box*	2.5mm (17mm including junction box)
Weight(Module without adhesive)	1.3 kg
Weight(Module with adhesive)	1.7 kg
Weight/Area(Module without adhesive)	2.0 kg/m2
Weight/Area(Module with adhesive)	2.7 kg/m2
Junction Box Type	IP68
Cable connections	Amphenol H4
Cell type	Copper Indium Gallium Diselenide (CIGS)



Operating Conditions

Temperature range	-40 to + 85 ℃
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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TECHNICAL DATA SHEET