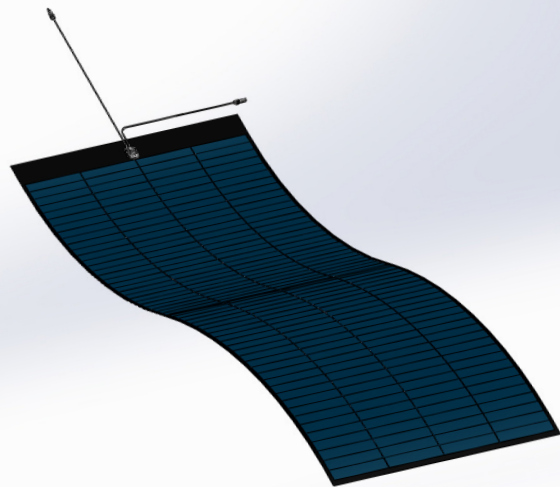


1.3m x 2.6m
460 – 560W

CIGS Flexible Modules: High Power Density in a Flexible Form Factor

KEY FEATURES

- ▶ Record efficiency levels in a flexible form factor
- ▶ Low installed weight at less than 2.0 kg/m^2 ($<0.5 \text{ lb/ft}^2$)
- ▶ 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



FLEX-03W 2.6 METER SERIES CIGS MODULE

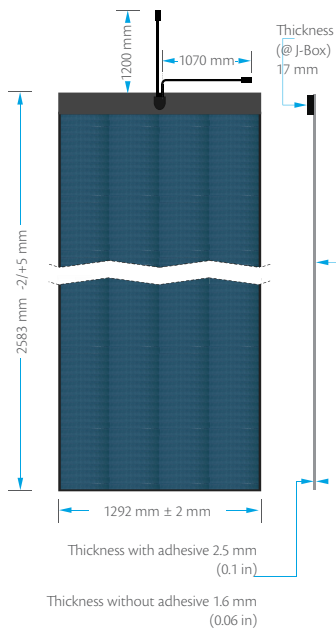
ELECTRICAL PERFORMANCE AT STC¹

			FLEX-03 460W	FLEX-03 470W	FLEX-03 480W	FLEX-03 490W	FLEX-03 500W	FLEX-03 510W	FLEX-03 520W	FLEX-03 530W	FLEX-03 540W	FLEX-03 550W	FLEX-03 560W
Nominal Power	P_{MPP}	[W]	460	470	480	490	500	510	520	530	540	550	560
Aperature Efficiency	η	[%]	15.0%	15.4%	15.7%	16.0%	16.4%	16.7%	17.0%	17.3%	17.7%	18.0%	18.3%
Power Output Tolerance		[W]	+10/-0	+10/-0	+10/-0	+10/-0	+10/-0	+10/-0	+10/-0	+10/-0	+10/-0	+10/-0	+10/-0
Maximum Power Voltage	V_{MPP}	[V]	58.7	59.6	60.5	61.4	62.4	63.3	64.2	65.1	66.0	66.9	67.9
Maximum Power Current	I_{MPP}	[A]	7.87	7.91	7.95	7.99	8.03	8.07	8.11	8.15	8.19	8.23	8.27
Open Circuit Voltage	V_{OC}	[V]	74.1	74.8	75.6	76.4	77.2	77.9	78.7	79.5	80.3	81.0	81.8
Short Circuit Current	I_{SC}	[A]	9.23	9.19	9.15	9.11	9.07	9.02	8.98	8.94	8.90	8.86	8.82
Maximum Series Fuse Rating		[A]	25										
Maximum System Voltage (IEC/UL)		[V]	1000/1000										

¹Standard Test Conditions (STC): 1000 W/m², 25°C cell temperature, AM 1.5 spectrum

THERMAL CHARACTERISTICS

NOCT	[°C]	48
Temperature Coefficient of P_{MPP}	[%/°C]	-0.38
Temperature Coefficient of V_{OC}	[%/°C]	-0.28
Temperature Coefficient of I_{SC}	[%/°C]	0.008



PHYSICAL AND MECHANICAL SPECIFICATIONS

Length	2583 mm (101.8 in, 8ft 5.8in)
Width	1292 mm (50.9 in, 4ft 2.9in)
Thickness, Maximum at J-Box*, Module	17 mm (0.7 in), 2.5 mm (0.1 in)
Weight (Module without adhesive)	5.6 kg (12.3 lb)
Weight (Module with adhesive)	6.6 kg (14.6 lb)
Weight/Area (Module without adhesive)	1.7 kg/m ² (0.3 lb/ft ²)
Weight/Area (Module with adhesive)	2.0 kg/m ² (0.4 lb/ft ²)
Junction Box Type	IP68
Cable Connections	Helios H4 (S&F)
Cell Type	Copper Indium Gallium Diselenide (CIGS)
Warranty**	5 year workmanship; 10/25 year power output
Certifications	UL 1703, IEC 61646, IEC 61730, cUL 1703, IEC 62716, IEC 61701 (Salt Spray), For Roofing Systems as the external fire exposure per UL file E483778 for Class A, B or C
Packaging Info	5 modules per crate, 20 modules per pallet, 320 modules per 20' ISO container, 640 modules per 40' ISO container

*2.5 mm (0.1 in) for the rest of the module with adhesive

**1.6 mm (0.06 in) for the rest of module without adhesive

**Please see full warranty for details