MiaSolé FLEX SERIES -03W

CIGS Flexible Modules for Carports: The Lightweight Peel-and-Stick Solar Solution

BENEFITS OF SOLAR CARPORTS:

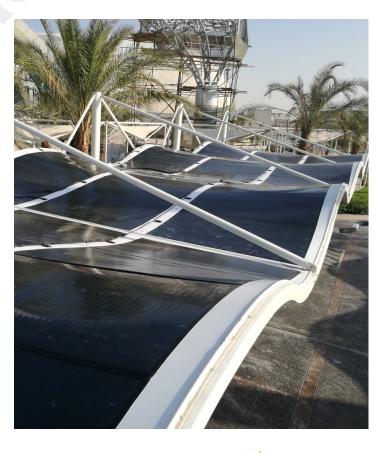
- Provide highly desirable shade for parked cars, providing increased owner comfort and a lower carbon footprint when the car is started and cooled
- ► Rain, snow and hail protection
- ► Reduced parking lot temperatures and heat-island effect
- Large power generation area when compared to traditional roofs
- ► Fewer engineering and inspection challenges than traditional rooftop solar installations
- Fewer shading issues than traditional roofs

MIASOLE FLEX BENEFITS:

- ► Lightweight: less than 2.0 kg/m² (<0.5 lb/ft²)—Ideal for today's cost-optimized carport structures
- ► Easy to install—simply peel-and-stick
- No need for ballast or penetrations into the carport roof
- Resistant to wind and seismic events won't detach or shatter if struck by debris
- ► Flexible modules conform to unique architecture
- Blends into the carport; does not protrude above the carport structure
- ► Theft and vandalism resistant

WARRANTY

- ► 5 year workmanship
- ▶ 10/25 year warranty against power loss

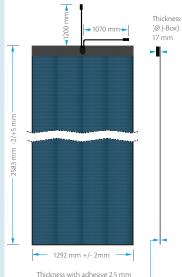




MiaSolé FLEX SERIES

FLEX-03W SERIES CIGS MODULE

ELECTRICAL PERFORMANCE AT STC¹



Thickness with adhesive 2.5 mm (0.1 in)

Thickness without adhesive 1.6 mm (0.06 in)

ss)			FLEX-03 490W	FLEX-03 500W	FLEX-03 510W	FLEX-03 520W	FLEX-03 530W	FLEX-03 540W
Nominal Power	P _{MPP}	[W]	490	500	510	520	530	540
Aperature Efficiency	η	[%]	16.0%	16.4%	16.7%	17.0%	17.3%	17.7%
Power Output Tolerance		[W]	+10/-0	+10/-0	+10/-0	+10/-0	+10/-0	+10/-0
Maximum Power Voltage	V_{MPP}	[V]	61.4	62.4	63.3	64.2	65.1	66.0
Maximum Power Current	I _{MPP}	[A]	7.99	8.03	8.07	8.11	8.15	8.19
Open Circuit Voltage	V_{OC}	[V]	76.4	77.2	77.9	78.7	79.5	80.3
Short Circuit Current	I _{sc}	[A]	9.11	9.07	9.02	8.98	8.94	8.90
Maximum Series Fuse Rating [A]		25						
Maximum System Voltage	(IEC/UL)	[V]	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}	[%/℃]	-0.38
Temperature Coefficient of V _{oc}	[%/℃]	-0.28
Temperature Coefficient of I _{sc}	[%/℃]	0.008

PHYSICAL AND MECHANICAL SPECIFICATIONS

Length	2583 mm (101.8 in, 8'ft 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)	5.5 kg (12.2 lb)
Weight (Module with adhesive)	6.6 kg (14.6 lb)
Weight/Area (Module without adhesive)	1.7 kg/m² (0.3 lb/ft²)
Weight/Area (Module with adhesive)	2.0 kg/m² (0.4 lb/ft²)
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, 40 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

**Please see full warranty for details

Made in the USA and China



^{*1.5} mm (0.06 in) for the rest of module without adhesive