MiaSolé FLEX SERIES –02NL

CIGS Flexible Modules: 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 2.9kg/m² (<0.6lb/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 61730-1 & -2, IEC 61701, IEC 62716, DEWA
- ▶ UL 1703, ULC ORD C1703, UL 2703

WARRANTY

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

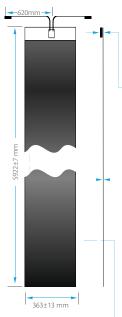




MiaSolé FLEX SERIES

FLEX-02NL SERIES CIGS MODULE

Thickness (@ J-Box)



ELECTRICAL PERFORMANCE AT STC⁺

			FLEX-02 265NL1	FLEX-02 275NL ²	FLEX-02 285NL3	FLEX-02 295NL ⁴	FLEX-02 305NL ⁵
Nominal Power	P _{MPP}	[W]	265	275	285	295	305
Nominal Efficiency	η	[%]	14.7%	15.3%	15.8%	16.4%	16.9%
Power Output Tolerance		[W]	+10/-0	+10/-0	+10/-0	+10/-0	+10/-0
Maximum Power Voltage	V _{MPP}	$[\vee]$	69.0	70.7	72.3	73.8	75.3
Maximum Power Current	I MPP	[A]	3.84	3.89	3.94	4.00	4.05
Open Circuit Voltage	V _{oc}	$[\vee]$	87.9	89.0	90.0	91.0	92.1
Short Circuit Current	I _{sc}	[A]	4.51	4.52	4.54	4.55	4.57
Maximum Series Fuse		[A]			10		
Maximum System Voltage	IEC/UL	[V]	1000/600				

¹Results based on preliminary testing

THERMAL CHARACTERISTICS

NOCT	[℃]	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 SPECIFICATIONS¹

Length	5922±7 mm (233.1±.3 in)			
Width	363±13 mm (14.29±.5 in)			
Thickness, Maximum at J–Box*, Module	17 mm (0.7 in)			
Weight (Module without adhesive)	4.3 kg (9.5 lb)			
Weight (Module with adhesive)	5.9 kg (13.1 lb)			
Weight/Area (Module without adhesive)	2.0 kg/m² (0.4 lb/ft²)			
Weight/Area (Module with adhesive)	2.9 kg/m² (0.6 lb/ft²)			
Junction Box Type	IP68			
Cable Connections	Amphenol Technology Shenzhen (E346053)			
Cell Type	Copper Indium Gallium Diselenide (CIGS)			
Warranty**	5 year workmanship; 10/25 year power output			
Certifications	UL 1703, ULC ORD C1703, UL 2703, IEC 61646, IEC 61730-1 & -2, IEC 61701, IEC 62716, DEWA			

¹ FLEX-02 265N C132

² FLEX-02 275N C132

³ FLEX-02 285N C132 ⁴ FLEX-02 295N C132 ⁵ FLEX-02 305N C132

Corresponding UL/IEC Model Numbers:

†Results based on preliminary testing

*2.5 mm (0.1 in) for the rest of the module with adhesive *1.5 mm (0.06 in) for the rest of module without adhesive **Please see full warranty for details



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1.408.940.9658 miasole.com FLEX modules are manufactured in the United States and China

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Thickness with adhesive — 2.5mm (0.1in) Thickness without adhesive

1.5mm (0.06in)