MiaSolé

MS SERIES

CIGS Modules: Delivering c-Si Performance at Thin Film Cost

120W – 140W MODULES WITH EFFICIENCIES UP TO 13%

SUPERIOR PROJECT RETURNS

- Low Voc enables up to 34 modules per 1000V string; 25A fuse rating allows two strings to be combined in parallel
- Corner junction boxes reduce install labor and eliminate cable tie downs
- Frameless design eliminates need for module grounding
- Better ground coverage ratios and increased energy in partial shading due to embedded bypass diodes
- Higher output due to +5/-0 watts positive binning

RELIABLE PERFORMANCE

- Innovative UltraWire™ creates fault tolerant, low resistance interconnect
- Unique weather protection system provides optimum defense against adverse weather, humidity and mechanical damage
- Rigorous test-to-fail philosophy; thermal tested to 1400 cycles; damp heat tested to 7000 hours for moisture barrier
- Five-year product warranty and 5/10/25 year warranty against power loss
- Dual tempered glass ensures extremely low breakage

SAFETY AND ENVIRONMENT

- Sophisticated and comprehensive quality management system
- Fully equipped UL certified internal test facilities
- Fully automated factory ensures repeatable build quality
- Three month energy payback

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ELECTRICAL PERFORMANCE AT STC[1]

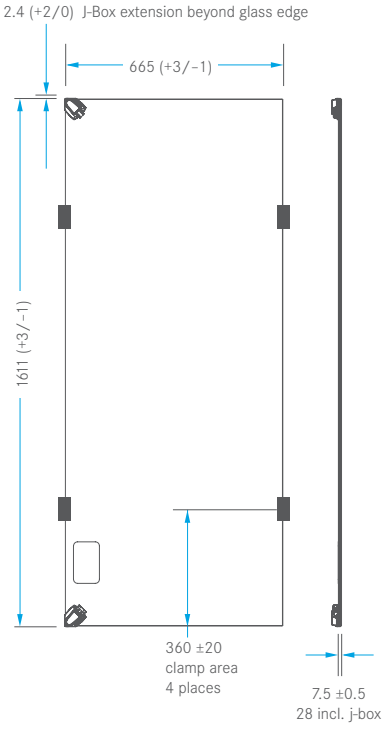
			MS120GG	MS125GG	MS130GG	MS135GG	MS140GG
Nominal Power	P_{MPP}	[W]	120	125	130	135	140
Power Output Tolerance		[W]	+5/-0	+5/-0	+5/-0	+5/-0	+5/-0
Maximum Power Voltage	V_{MPP}	[V]	19.0	19.5	20.1	20.5	21.0
Maximum Power Current	I_{MPP}	[A]	6.29	6.41	6.48	6.58	6.67
Open Circuit Voltage	V_{OC}	[V]	24.9	25.2	25.4	25.6	25.8
Short Circuit Current	I_{SC}	[A]	7.35	7.35	7.35	7.35	7.35
Maximum Series Fuse Rating		[A]	25				
Maximum System Voltage	(IEC/UL)	[V]	1000/600				

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

ELECTRICAL PERFORMANCE AT NOCT[2]

Nominal Power	P_{MPP}	[W]	84.1	87.3	90.6	93.9	97.3
Maximum Voltage	V_{MPP}	[V]	16.6	17.1	17.5	18.0	18.5
Maximum Current	I_{MPP}	[A]	5.05	5.11	5.17	5.21	5.26
Open Circuit Voltage	V_{OC}	[V]	21.9	22.2	22.6	23.0	23.3
Short Circuit Current	I_{SC}	[A]	5.78	5.82	5.86	5.91	5.95

[2] Nominal Operating Cell Temperature (NOCT): 800 w/m², 20°C ambient temperature, 1 m/s wind speed



MiaSolé will evaluate alternate clamping solutions upon customer request. All dimensions in millimeters.

THERMAL CHARACTERISTICS

NOCT	[˚C]	49
Temperature Coefficient of P_{MPP}	[%/˚C]	-0.45
Temperature Coefficient of V_{OC}	[%/˚C]	-0.36
Temperature Coefficient of I_{SC}	[%/˚C]	-0.003

PHYSICAL AND MECHANICAL SPECIFICATIONS

Length	1611 mm (63.4 in)
Width	665 mm (26.2 in)
Depth	7.5 mm (0.3 in); 28 mm (1.1 in) including junction box
Weight	18 kg (39.7 lbs)
Junction Box / Output Terminal Type	2 corner connection boxes / MC4 type
Cell Type	Copper Indium Gallium Diselenide (CIGS)
Maximum Load	Tested snow load: 5400 N/m²
Warranty Term	5/10/25 year power output, 5 year workmanship[3]
Certifications	IEC 61646, IEC 61730 (Application Class A), UL 1703 (Fire Class A), CEC

[3] Please see full warranty for details.

MiaSolé

Safety Class II

Made in Silicon Valley, USA

2590 Walsh Avenue, Santa Clara, California 95051, USA
1.408.919.5700 sales@miasole.com www.miasole.com