

MiaSolé 10X CIGS SOLAR CELL

Thin Film CIGS Solar Cells: Powerful, Flexible, Lightweight

MiaSolé thin-film CIGS solar cells deposited on stainless steel substrate have high efficiency and provide significant advantages over conventional, rigid solar cells.

KEY FEATURES

- ▶ Efficiency—Up to 17%
- ▶ Thin—0.33mm thick
- ▶ Lightweight—8.7g
- ▶ Configurable length
- ▶ Integration-ready for multiple product applications
- ▶ Innovative cell interconnect
- ▶ Flexible and shatter-proof
- ▶ Each cell identified by a unique barcode, providing comprehensive product genealogy

PACKAGING, HANDLING AND STORAGE NOTES

- ▶ MiaSolé solar cells are sensitive to humidity and temperature. They must be stored at $\leq 10\%$ relative humidity and between 10-35°C.
- ▶ Products made with MiaSolé solar cells require encapsulation to protect against moisture.
- ▶ Cells packaged in bundles of 150 units. Packages are resistant to moisture ingress.



MiaSolé

10X CIGS SOLAR CELL

ELECTRICAL PERFORMANCE BY 0.5% EFFICIENCY BINS†

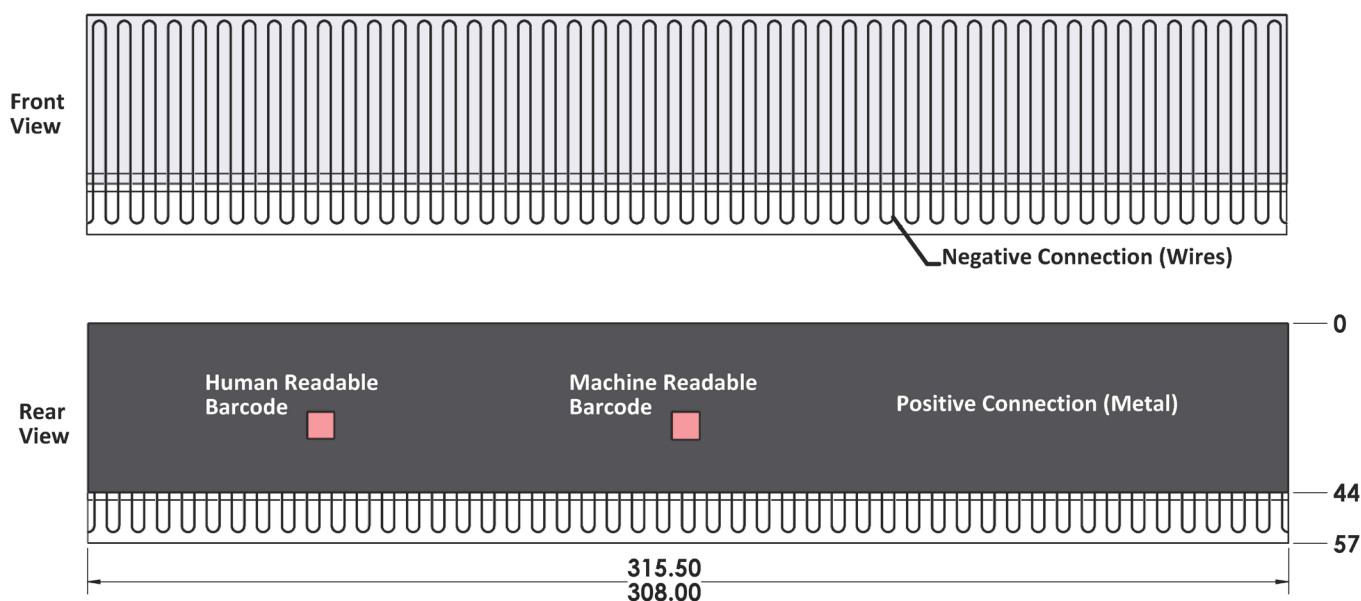
Cell Efficiency			15.0%	15.5%	16.0%	16.5%	17.0%
Power	P_{MPP}	[W]	2.09	2.17	2.22	2.28	2.33
Maximum Power Voltage	V_{MPP}	[V]	0.577	0.589	0.595	0.599	0.601
Maximum Power Current	I_{MPP}	[A]	3.63	3.68	3.73	3.80	3.87
Open Circuit Voltage	V_{OC}	[V]	0.710	0.725	0.731	0.732	0.732
Short Circuit Current	J_{SC}	[A]	4.02	4.02	4.08	4.14	4.21

† Performance tested at Standard Test Conditions (STC). STC: 1000W/m², AM1.5G, Cell Temperature 25C.

PHYSICAL AND MECHANICAL SPECIFICATIONS

Length	308 - 315.5 mm
Width (cell only)	44.0 mm ± .25 mm
Width (including interconnect)	57.2 mm ± .25 mm
Thickness	0.33 mm ± 0.1 mm
Weight	8.7g ± 0.2g
Cell Type	Thin Film CIGS on Stainless Steel Substrate
Packaging Info	150 cells per package, 10 packages per box

CELL DIAGRAM



Santa Clara, California, USA
info@miasole.com

+1(408)940-9658
www.miasole.com

MiaSolé and the MiaSolé logo are registered trademarks. © Jan 2022 MiaSolé. All rights reserved. Specifications included in this datasheet are subject to change without notice. MiaSolé Approved for Public Release. Part Number 302-