

MiaSolé 9X CIGS SOLAR CELL

Thin Film CIGS Solar Cells: Powerful, Flexible, Lightweight

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

KEY FEATURES

- ▶ Efficiency—Up to 16%
- ▶ 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 9X CIGS SOLAR CELL

NOMINAL PERFORMANCE BY 0.5% EFFICIENCY BINS[‡]

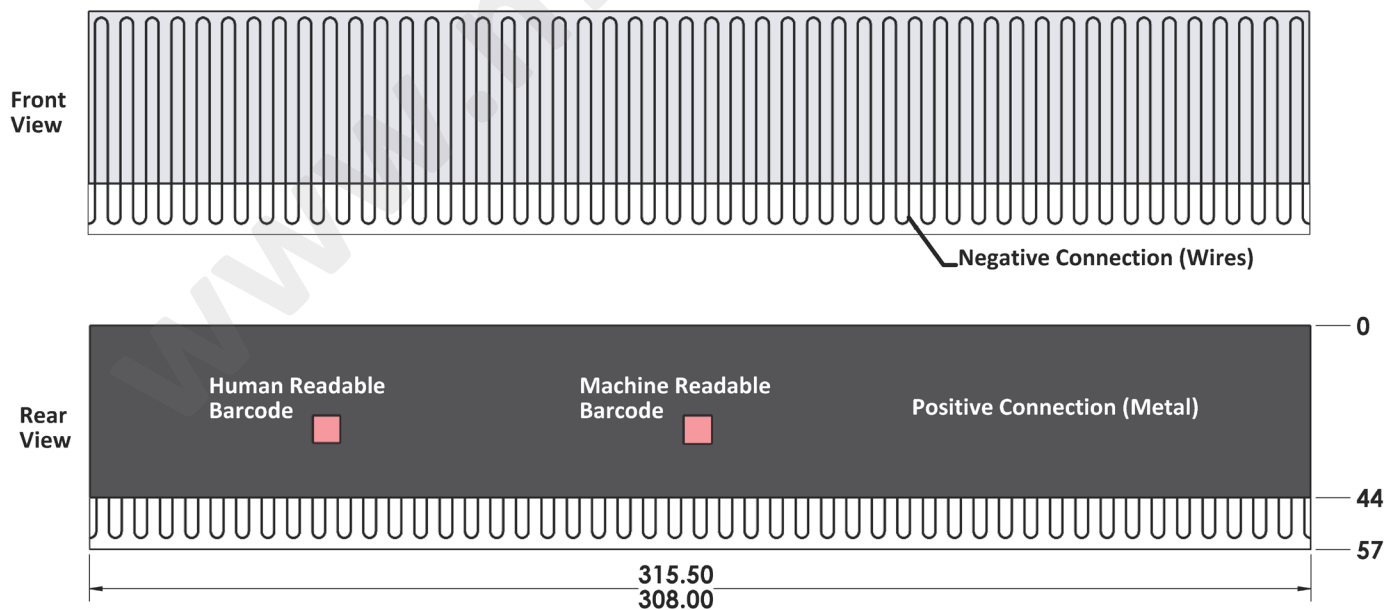
Cell Efficiency			>14.0%	>14.5%	>15.0%	>15.5%	>16.0%
Power	P_{MPP}	[W]	1.95	2.02	2.08	2.15	2.20
Maximum Power Voltage	V_{MPP}	[V]	0.524	0.537	0.541	0.546	0.552
Maximum Power Current	I_{MPP}	[A]	3.73	3.77	3.84	3.93	3.98
Open Circuit Voltage	V_{OC}	[V]	0.651	0.663	0.667	0.671	0.676
Short Circuit Current	J_{SC}	[A]	4.26	4.25	4.30	4.36	4.39

[‡] 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 ± 0.25 mm
Width: Including Interconnect	57.2 mm ± 0.25 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



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

MiaSolé and the MiaSolé logo are registered trademarks.
© Jan 2019 MiaSolé. All rights reserved. Specifications included in this datasheet are subject to change without notice.
MiaSolé Approved for Public Release.
Part Number 302-189851-00-A