

LUMI-Q String

String inspection and monitoring with photoluminescence





ABOUT LUMI-0 STRING

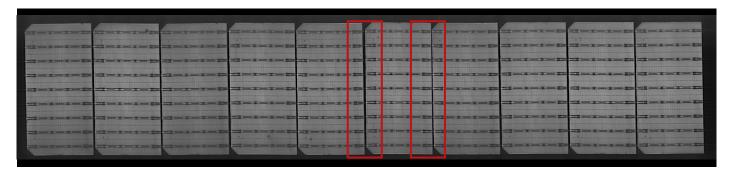
LUMI-Q String is an inspection system capable of detecting both electrical/material and geometric defects on solar strings. Using a laser-free and contactless method, it guarantees comprehensive defect identification and classification, even for the most complex cell structures with the smallest finger and busbar widths.

LUMI-Q String integrates seamlessly into the stringer outlet without requiring additional space, making it retrofittable. With its fast measurement speed and robust data management capabilities, LUMI-Q String improves module manufacturing and ensures unparalleled module quality and efficiency.

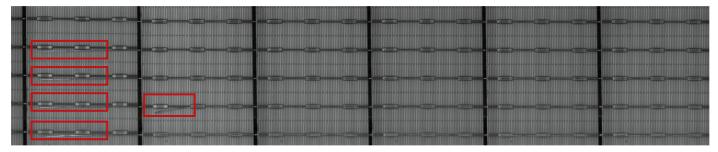
KEY FEATURES

- Detection of all relevant defects directly in stringer
- · Fast measurement speed:
- ≥ 800 mm/s @ 3k
- ≥ 1200 mm/s @ 1k
- · Laser-free for reduced safety requirements
- Seamless integration without additional footprint
- Optional: Fast data management with central recipe management and comprehensive data reporting

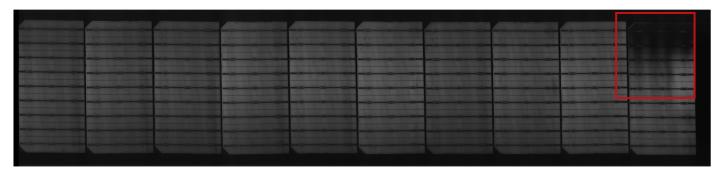
TYPICAL DEFECTS



Cell alignment

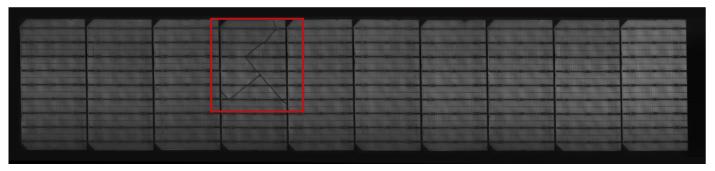


Ribbon failures

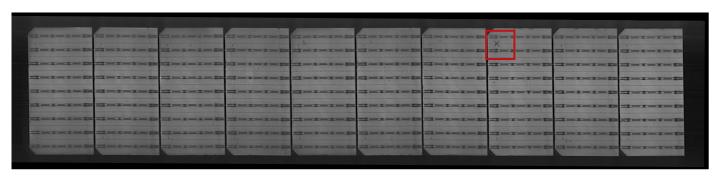


Short circuited cell

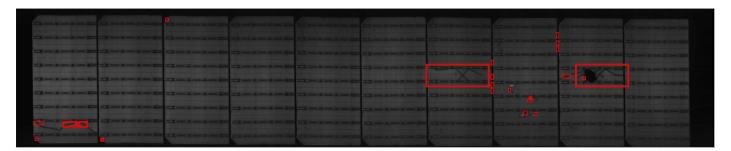
TYPICAL DEFECTS



Crack



Micro-crack



Cracks and broken pieces





