

CFV Labs

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PV Module Roof Deck Testing

James Richards, VP of Engineering

CFV Labs

Albuquerque, New Mexico



Roof Deck Testing Overview

CFV Labs offers a shingled roof deck for PV module performance and comparison testing.

- 5:12 pitch roof with black or brown shingles, 80' long (picture has fisheye lens distortion). Possibility of BIPV and shingled PV installations.
- Two 3.3kW inverters coupled with an 8-module string will give no clipping. Alternatively, the inverters can be configured to clip. Interstitial space below roof allows thermal measurements to be easily instrumented.
- High quality data acquisition equipment includes a weather station, and module temperature measurements.



Instrumentation

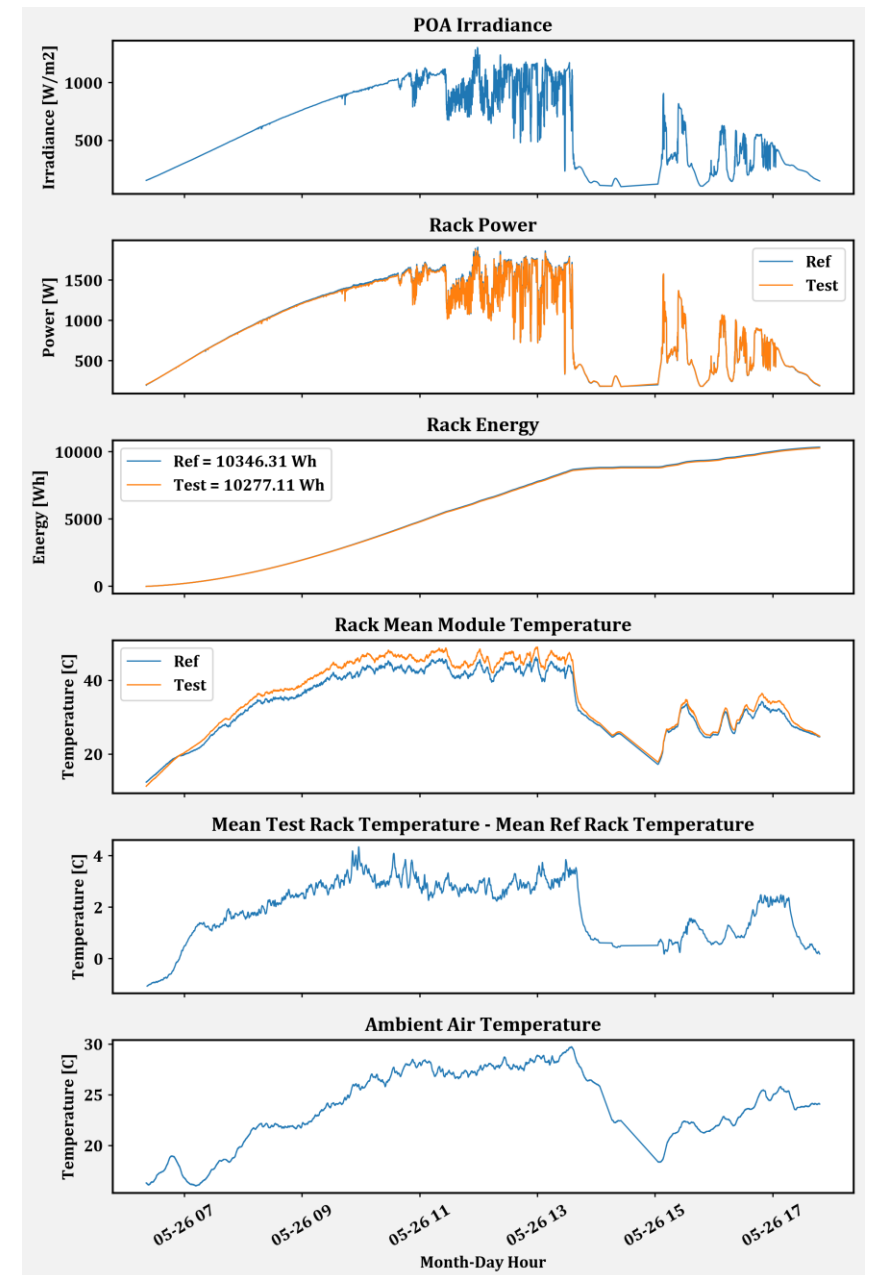
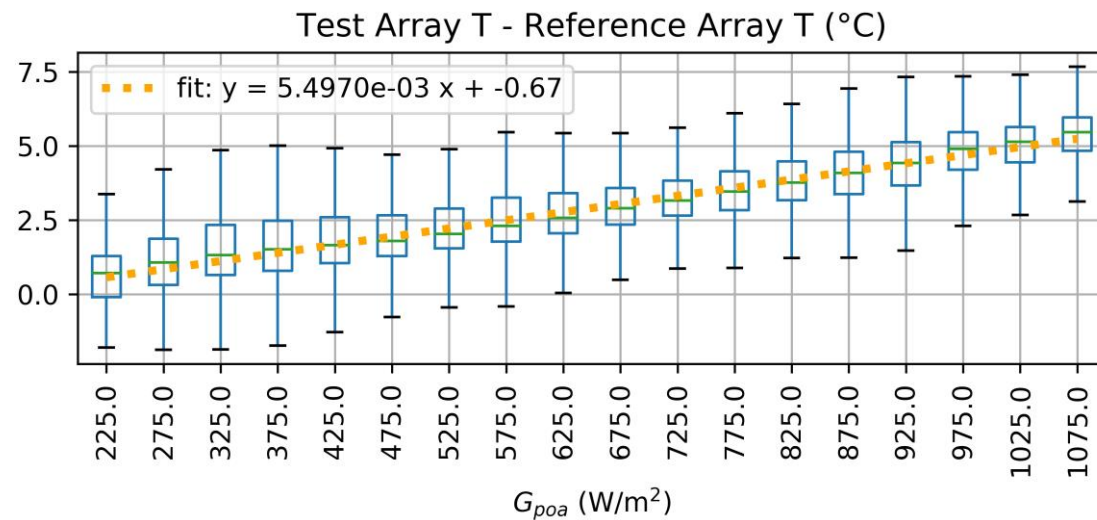


- Two Vmp and Imp measurement channels
- Twelve thermocouple channels
- Pyranometer irradiance sensor
- Ambient temperature sensor

Data Analysis

CFV has a wide range of data analysis capabilities that range from simple to complex.

- Daily energy yield analysis
- Performance comparisons
- Module operating temperature
- Performance model validation



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Thank you.

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5600A University Blvd SE

Albuquerque, NM 87106, U.S.A.

505-998-0100

Project inquiries: jim.crimmins@cfvsolar.com

www.CFVLabs.com