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SolarSIM-G Certificate of Calibration #100210319-1057

SENSOR MODEL	SolarSIM-G
SERIAL NUMBER	1057
REFERENCE DEVICE	SolarSIM-G SN1010
CALIBRATION DATE	19 th March 2021, 10:19AM
LOCATION	Spectrafy on-sun test site, Ottawa, Canada
CONDITIONS	On-sun test, AM2.0, T _{amb} = -3.82±1°C, RH= 41%
RECAL. DATE	March 2023
IN CHARGE OF TEST	Viktar Tatsiankou

CALIBRATION VALUES

Channel	Calibration Factor	Calibration Uncertainty, k=2
1	35.4991	± 3.0
2	18.8372	± 2.5
3	13.0693	± 2.2
4	11.6133	± 1.8
5	15.8981	± 2.0
6	13.7448	± 2.3
7	12.0016	± 2.9
8	11.9083	± 2.1
9	41.9279	± 2.1

Measurement uncertainties at the time of calibration are consistent with the Guide to the Expression of Uncertainty in Measurement (GUM). All nominal values are traceable to the International System (SI) Units of Measurement.

This certificate applies only to the item identified above and shall not be reproduced other than in full, without specific written approval from Spectrafy.

Calibration Procedure

Side-by-side test of SolarSIM-G SN1057 against SolarSIM-G SN1010 reference unit. Test conducted in clear sky conditions with the DNI of approximately 869 W/m².

Hierarchy of traceability

The SolarSIM-G SN1010 reference unit is recalibrated for absolute irradiance on a biannual schedule at NREL in Golden Colorado. NREL calibrations are traceable to NIST Spectral Irradiance Standard Model FEL S/N: F655 via NREL's LI-1800 Spectroradiometer, S/N:PRS218.

Calibrated by:

Viktar Tatsiankou