## PV is spectral. Measure accordingly.

At Spectrafy, we embrace the spectral nature of PV. The sun is spectral, the solar panels are spectral – so it makes sense that the sensors should be spectral too.

But we also understand that spectral data can be tough. The instruments are expensive, the data can be unreliable and the shear volume of it quickly become unwieldy.

Not anymore. Since 2012 Spectrafy has been at the forefront of delivering ground-breaking sensors and software that make it easy to measure and use spectral data.

We recognize that in the rapidly-growing PV industry, spectral data is increasingly becoming a key driver of enhanced certainty and higher value. And that is why Spectrafy is committed to providing the best sensors for the job.

Spectrafy
solar spectral sensors

Spectrafy Inc.
4 Florence St, Suite 204
Ottawa, ON K2P 0W7
Canada

www.spectrafy.com

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# PV is spectral

## measure accordingly

All SolarSIMs are classified as Class A per ISO9060:2018

Did you know: Since 2015 Spectrafy has reduced the cost of full-range solar spectral measurement by 80%.

# SolarSIM-GPV

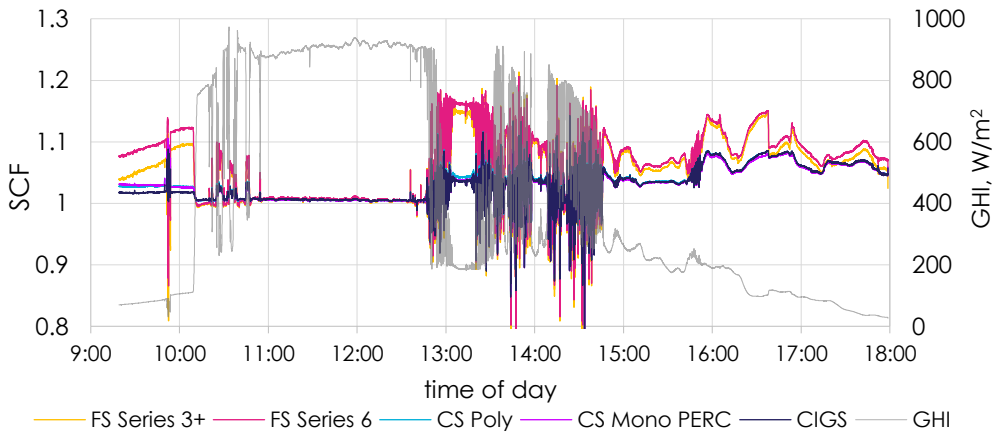
## Spectral pyranometer

GHI/POAI and spectral correction all from one accurate, reliable sensor.


## Spectrafy brings the power of routine spectral correction to the PV industry.

## What are spectral correction factors?

Spectral correction factors (SCFs) quantify the changes in PV panel performance due to the difference between the sun's spectrum in real-life and the reference spectrum that all solar panels are rated under. Spectral effects can approach 20% on an instantaneous basis and 3-5% on a yearly basis (see below).




## Use Cases:

- Solar resource assessment

Reduce uncertainty in PV performance predictions. Accurately compare the spectral benefit of difference PV technologies.

- Solar O&M

Clarify your O&M metrics by eliminating 'spectral noise' in real-time.

- Rearside irradiance for bifacial PV

Accurately quantify the solar resource potential for bifacial PV.

## Configurations:

| | | |
|---|---|---|
| GHI/POAI only | $ | Deploy like a pyranometer. Spectral data can be unlocked later, anytime. |
| GHI/POAI + SCF | $$ | All the modern PV professional needs to quantify spectral effects. |
| Full spectra | $$$ | For the greatest flexibility and research purposes. |