



# Spectrafy

solar spectral sensors

## iSG Integrated Spectrum Generator

The iSG Integrated Spectrum Generator simplifies integration of the SolarSIM-GPV by enabling in-line processing of the SolarSIM-GPV's raw data.

Processed global irradiance and spectral correction factor data can be fed directly to an onsite datalogger and subsequent SCADA system, without the need for additional software or processing hardware.

The iSG Integrated Spectrum Generator acts as a go-between, pulling raw data from the SolarSIM-GPV, processing it, and then outputting it to the met station data logger, via the RS485 Modbus RTU communication protocol.

This removes the need for additional data processing hardware and software and allows integrators to offer a turn-key solution for spectrally corrected irradiance.

Physically, the iSG can either be deployed in open-air, or within the data logger enclosure where it mounts via standard DIN rail.

- **Streamline deployment.**

The iSG Integrated Spectrum Generator simplifies deployment of the SolarSIM-GPV by enabling inline processing of spectral data.

- **Compact, low-power, robust.**

The iSG is designed for robust, field performance while minimizing space and power requirements.

- **Industry standard communication.**

The iSG communicates via standard RS485 Modbus RTU protocols. Exemplar datalogger code is provided with each iSG.





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## iSG Integrated Spectrum Generator

### Compatibility

Compatible SolarSIMs

SolarSIM-GPV

### Outputs

Global irradiance

PV spectral correction factors

SolarSIM-GPV raw data

GHI/GTI (ISO9060:2018 Class A)

Up to nine user-defined panels

### General

Weight

0.3 kg

Dimensions (L x W x H)

150 x 100 x 50 mm

Power supply and use

12 VDC, 6.2W (5.2W max for iSG, + 1W for SolarSIM-GPV)

Communication

RS-485 Modbus RTU

Operating temperature range

-30°C to +65 °C

Humidity range

0 to 100% RH

Environmental protection

IP66

Mounting

DIN rail

Ports

1. SolarSIM. 2. Power. 3. Datalogger.

