

Suns-Voc Elite: Advanced R&D Suns-Voc Testing



The Suns-Voc Elite system has the capability to measure up to four cells simultaneously.

Advanced, simultaneous four-cell R&D Suns-Voc testing with light and temperature soaking capabilities.

Product Overview

The Suns-Voc Elite system is designed for light and/or temperature soaking R&D experiments. The system utilizes LED illumination up to 1.2 suns intensity for extended duration testing. The system offers testing on up to four cells simultaneously.

Suns-Voc Elite Applications

During testing, Suns-Voc curves on each cell can be obtained simultaneously or simply individual Voc points can be measured over time to monitor degradation. Because it is capable of performing a complete Suns-Voc curve, it can also provide minority-carrier lifetime curves, implied I-V curves, and J_0 information for each measurement. The tool is designed to be set up and then allow operators to walk away while an experiment is in progress.

Suns-Voc Elite System Features

- Simultaneous measurement of up to four samples
- Temperature-controlled chuck (15-100°C)
- LED illumination up to 1.2 suns
- Front-side cell probe bar
- Measured Suns-Voc curve
- Measured effective lifetime vs. carrier density curve
- Individual Voc point measurement

Suns-Voc Elite Specifications

Instrument Specifications

Parameters reported for each measurement

- Voc
- Suns-Voc
- Pseudo efficiency
- Double-diode analysis
- Rsh

Typical calibrated illumination range

- 0.006–1.2 suns

Sample size

- Maximum cell size: 175 x 175 mm

Warranty

- One-year limited warranty on all parts and software



Facility Requirements

Chuck temperature control

- 15°C–100°C

Ambient operating temperature

- 18°C–25°C

Power requirements

- Computer with monitor: 200 W
- Light source: 60 W

Dimensions

- 57.9 x 57.9 x 52.5 cm (LxWxH)

Universal mains voltage

- 100–240 VAC 50/60 Hz

Special facilities requirements

None

Purchasing Information

For a quote, please contact
quotes@sintoninstruments.com.

We are happy to accommodate custom requirements. Please inquire about a quote for your specific needs.

Quotes are valid for 60 days.

For our full product line, visit our website at:
www.sintoninstruments.com

