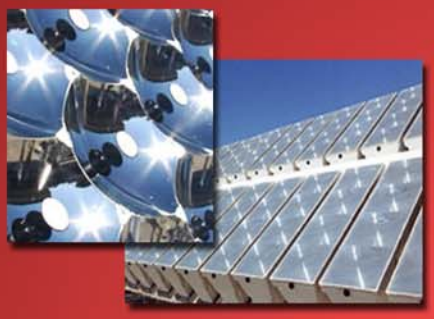
LAPSS

AOPT Pulsed Solar Simulator

MODEL: LAS-2008-1

SPACE PANEL TESTING



CONCENTRATOR CELL TESTING

ALPHA-OMEGA Power Technologies L.L.C. EST. 1997

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Alpha-Omega Power Technologies L.L.C. est. 1997

Large Area Pulsed Solar Simulator

LARGE AREA PULSED SOLAR SIMULATOR LAS-2008

LIGHT CHARACTERISTICS

Pulse Shape	3 ms Pulse Width
Pulse Rate	4 Pulses per minute
Spectrum	AM0 or AM1.5 spectrum*

* Measured over three bands with > 1% variation for TOP, MIDDLE, BOTTOM band
The color temperature of this Xenon emission spectrum can be adjusted to achieve a spectrum suitable for solar cell testing.

Intensity	1 Sun (1 Sun is 1000 W/m^2)
Flash Intensity Repeatability	< 1.5%
Temporal Stability	5% over 1 ms data acquisition window
Spatial Flux Uniformity	+/- 1.5% over 1.5 m X 1.5 m square

LOAD CHARACTERISTICS

Voltage	0 – 200V
Current	50 mA – 20 A over 4 ranges
Channels	3 Standard Channel Inputs 1 Solar Cell Test Channel Input STANDARD Up to 8 Test Channels OPTIONAL
Accuracy	14-bits Vertical Resolution +/- 0.3% or +/- 20mA or V Which Ever is Greater
Sampling Rate	2500 Pts/ms STANDARD 4800 Pts/ms OPTIONAL
Other	4 quadrant operation Sweep load from High Z to Low Z

DATA ACQUISITION SYSTEM

The SSDAQ is a high speed data acquisition system for conducting solar cell characterizations with a pulsed solar cell simulator. The system works with Alpha-Omega's Large Area Pulsed Solar Simulator.

Measurements	Voc, Isc, IV Curve, Intensity, and Temperature
Displayed Data	Above measurements plus: Jsc, Fill Factor, Efficiency, Intensity corrected data, Power curve, Temperature corrected data, etc.
Data Logging	Data written to user defined location

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