

## Case Study: California Institute of Technology

### Application: Advanced Instrumentation Protection



**Location:** Pasadena, CA

**Application:**

Scientific instrument power protection in a wide range of environments.

**Solution:**

Orion Power Systems Online RTX 3000VA to provide clean power no matter what.

**Results:**

Provided reliable power protection for scientific measurement devices for airborne and land based applications.



“ Orion was easy to work with and the ups has provided the reliable and clean power we require for accurate results”

- John Crouse  
Staff Scientist  
Caltech

# Caltech

**Customer**

Caltech Environmental Science and Engineering (ESE) program reaches across traditional disciplinary boundaries in its aim to provide a comprehensive understanding of our complex environment and offer efficient and effective engineering solutions to environmental problems. Students in ESE receive a broad education and carry out research addressing some of the grand science and engineering challenges of our times.

**Challenges**

The advanced instrumentation Caltech students use to carry out groundbreaking experiments require clean power to deliver accurate results. Caltech also needed to be able to control the ups with custom written software.





## **The Solution**

Orion Power Systems provided Caltech the Online RTX 3000VA ups system to provide the highest level of power quality possible. The Online RTX uses double conversion technology to ensure voltage regulation of +/- 1% no matter the input voltage. Orion Power Systems also worked closely with Caltech to provide the serial communications specifications so that Caltech could monitor and control the ups using their own custom developed software.

## **Results**

The Orion Online RTX ups system has provided Caltech the reliable power needed in a variety of challenging environments. The Online RTX was deployed on the NASA DC8 for airborne experiments and measurements in addition to land based applications.

**To learn more about Orion Power Systems Online RTX1 or other products and services:  
Visit [www.orionpowersystems.com](http://www.orionpowersystems.com) | Call 877-385-1654 (US)**



**“The Professionals Choice For Reliable Power”**

Orion Power Systems, Inc.  
3811 University Blvd. W Suite 3  
Jacksonville, FL 32217  
Toll-Free: 877-385-1654  
[www.orionpowersystems.com](http://www.orionpowersystems.com)