



Case study

POWERING EDUCATION IN ASTRONOMY

CyberPower Smart App
Online UPS Systems with
power monitoring software

THE POWER TO REACH NEW HEIGHTS



Shown: Smart App Online OL2200RTXL2U UPS System and BP72V60ART2U Extended Battery Module

CyberPower's portfolio of power protection solutions includes uninterruptible power supply (UPS) systems of all sizes and capacities that include power monitoring and management software which are designed to meet the growing demands of advanced IT applications. From project scoping to professional commissioning and service, CyberPower can deliver a complete power protection solution.

Solution Summary

Location: Concordia University in Montréal, Canada

Opportunity: To provide reliable power protection to the student-led rocketry division within the university's space program

CyberPower Solution: OL2200RTXL2U Smart App Online UPS System and an BP72V60ART2U Extended Battery Module

Results: The rocketry division is now powered, protected, and positioned for success in the future

CyberPower®

About CyberPower

Founded in 1997, CyberPower designs, manufactures, and delivers award-winning power protection solutions, including uninterruptible power supply (UPS) systems, power distribution units (PDUs), surge protectors, mobile charging devices, connectivity, and power management software to customers worldwide.



ABOUT CONCORDIA UNIVERSITY

Concordia University in Montréal, Quebec, offers over 400 undergraduate programs across a wide spectrum of fields to its 50,000+ students. The university features a highly ranked school of engineering and a leading space program.

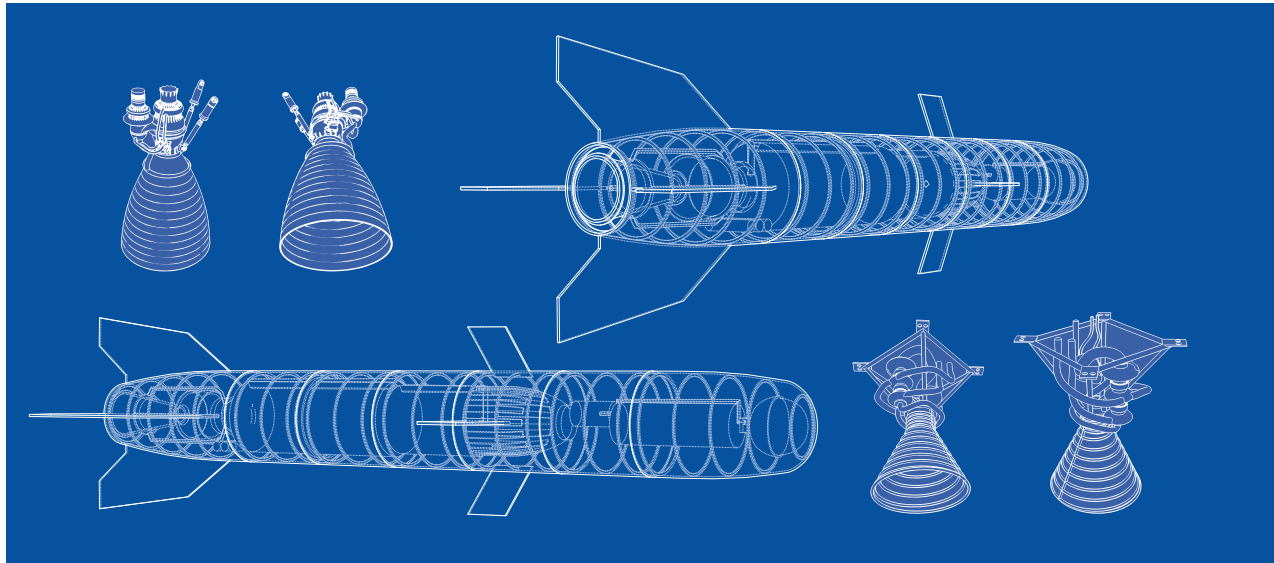


SITUATION: THE ROCKETRY PROGRAM NEEDS A LIFT

The engineering department at Concordia is heavily focused on experiential learning in which students apply theories to practical scenarios. They follow the engineering process of: design, build, test, break, and repeat. The rocketry division is one of several student-run groups within the space program of the engineering department that provides students the opportunity to learn and partner with industry experts. Supported by several donors and partners, the rocketry division designs and builds the infrastructure to test and launch rockets.

The rocketry division was planning and developing the first space launch in Canada since 2000. The launch mission was waylaid by ongoing power issues and outages due to the amount of power used for test launches.

POWERING PROGRESS



for illustrative purposes only

TASK: MISSION-CRITICAL POWER PROTECTION REQUIRED FOR TAKEOFF

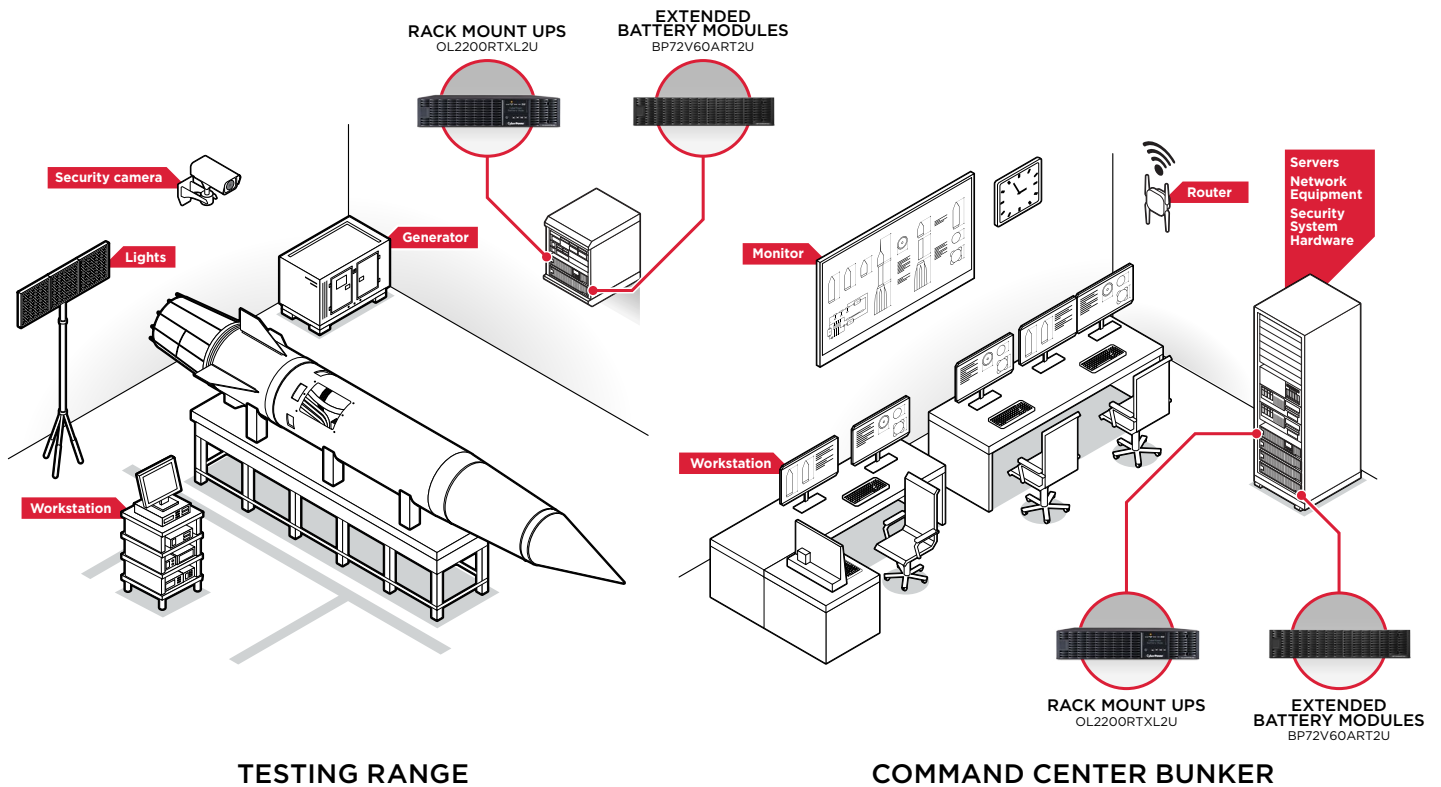
Along with other rocketry division members, students Serban Popovici and Henri Takahashi Massicotte started building rockets in 2018. After a few failed launches, they determined that a power protection plan featuring reliable battery backup was vital to help protect against damage to devices and loss of critical data. Preserving the data allowed the students to build on their accomplishments rather than starting from scratch with each launch attempt.

Specifically, they needed power protection for three critical areas:

- Security cameras/systems throughout the lab
- Testing location with critical launch equipment that relies on generators
- The Bunker, a secure, offsite space that houses all computers and networking equipment

The battery backup and power protection would:

- Protect the devices from damage
- Provide at least 30 minutes of runtime to safely power and shutdown devices
- Protection against data against loss. Every test launch offered a wealth of information, but power disruptions would frequently put that data at risk.



ACTION: RELY ON A TRUSTED PARTNER TO REACH THE NEXT LEVEL

Serban was familiar with CyberPower and knew the manufacturer provided reliable power protection and battery backup, so he and Henri contacted the CyberPower Canadian Sales Team. CyberPower worked closely with the rocketry team to understand what devices needed power protection and features such as generator compatibility, VA capacity, and runtime to determine the appropriate battery backup solution.

CyberPower suggested an online, double-conversion UPS system (OL2200RTXL2U) and an extended battery module (BP72V60ART2U) to power and protect equipment in the testing lab, computers in the bunker, and security cameras.

CyberPower won the business based on these key factors:

- Generator compatibility
- 2200 VA capacity to match the load requirements
- Ability to add an extended battery module for additional runtime

POWERING THE FUTURE

RESULT: TO INFINITY AND BEYOND

After installation, CyberPower's UPS Systems were put to the test when a power event occurred and the generator failed due to a voltage regulation issue. The battery backup automatically regulated the voltage and powered the equipment through the outage, protecting the connected devices against damage and data loss.



Shown: Smart App Online OL2200RTXL2U UPS System and BP72V60ART2U Extended Battery Module

Known as Starsailor, the rocketry division went on to achieve the first rocket launch in Canada in 25 years and the first ever rocket launch accomplished by a student-led organization.

The Concordia University Space Program's rocketry division control room is now powered, protected, and positioned for additional liftoffs. Now that Starsailor has launched successfully, they are working on their next iteration of the rocket.

From basic to advanced power protection, and monitoring, CyberPower is your ultimate ally in power. To learn more, contact a CyberPower sales associate and or visit www.CyberPowerSystems.com/products



CYBER SNAP SHOT

Who? The student-led rocketry division of Concordia University in Montréal, CA.

What was learned? Protecting data is just as important as protecting devices.

Why it matters? When it comes to scientific innovation, uninterrupted power leads to progress.

Results: Concordia University's rocketry division is now powered, protected, and ready for lift off!