

CPN POWER

Specializing in the application of Central UPS Systems to support Multi-Vendor and Multi-Modality Diagnostic Imaging and Radiation Therapy Applications





Power Protection for Diagnostic Imaging and Radiation Therapy Applications

Application of Central UPS Systems

CPN Power has tested and provided multiple approaches and technologies for Central UPS Systems. We are able to consult on the benefits, features, and proper sizing of the Central UPS for the given modalities. We listen to the Customer, MEP Engineer, and Architect's views, and combine this with our extensive expertise in the field.

In the end, it is a collaborative team effort to find the best solution for the Hospital, Outpatient Center, Ambulatory Facility, Imaging Center, Women's Health Center, or Stand-alone ED.

Long-Term Scalability

A Central UPS has a typical life expectancy of 15-20 years. During that time, Imaging modalities such as MRI's, CT Scanners, and Labs are expected to be updated every 5-12 years depending on the type and Hospital size. As these upgrades occur, we see power demands increase as well as a mixing of modalities on a common platform. CPN Power considers these changes in the initial phases of UPS sizing to assure long-term scalability. Additionally, we look at the diversity of application loads, higher peak current activity, as well as coincidence between various modalities.

TECHNOLOGIES WE OFFER

Static On-Line Double Conversion UPS

CPN Power is proud to offer Mitsubishi Static UPS Systems in 100, 150, 225, 300, 375, 500, 750, and larger kVA sizes.

- with VRLA Batteries
- with Lithium Ion Batteries

Additional Technologies & Designs

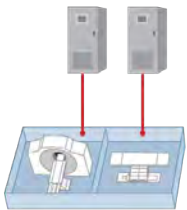
- Parallel Online Architecture Flywheel UPS
- Single Module Systems
- Redundant Design Systems (N+1)
- Supporting 2, 5, 10, 20+ Imaging Modalities



Long-Term Savings

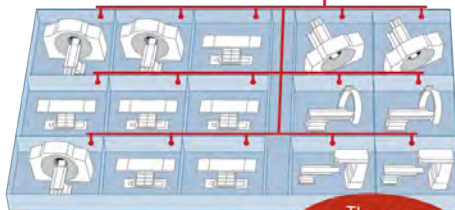
2=15 VALUE PROPOSITION

Medical Equipment Vendor Solution



2 UPS Systems
2 Suites Protected
\$\$\$

CPN POWER Solution



1 Central UPS System
15 Suites Protected
\$\$\$

The same investment protects **13 Additional Suites!**

NOTE: Value propositions are available in many sizing options.

BENEFITS OF CENTRAL UPS

- Providing lower Total Cost of Ownership (TCO)
- Providing protection for all modalities
- Providing power conditioning in addition to outage protection
- Assuring uptime during invasive and interventional procedures
- Maintaining high efficiency and tight voltage regulation for the best image quality
- Reducing accumulative component damage
- Will support equipment upgrades and future modalities
- Moves the UPS System out of the imaging suite area to the electrical room or similar location



Lithium-ion Batteries

UPS Systems have typically been offered with traditional VRLA (Valve Regulated Lead Acid) batteries for many decades. Today, CPN Power commonly applies Saft and Samsung Lithium-ion batteries (LiB). New battery technology continues to evolve, with the EV market's rapid growth and the need for smarter electric grids that store power at night for use during the day. We may see these on the market over the next several years, and they can ultimately be applied in UPS applications.

What are the benefits?

- Smaller Footprint
- Dramatically Reduced Weight (3-5x lower)
- Significantly Longer Life (3-5x longer)

Flywheels

Flywheel UPS Systems have been available for many decades and can be provided in a variety of design approaches. The Active Power Flywheels are offered as a packaged UPS System. These Flywheels are offered in 250, 300, 333, and 675 kW modules that can be paralleled to provide larger capacity and/or redundancy.

The image to the right displays a 667 kVA / 600 kW N+1 design utilizing (3) 300 kW Flywheel modules

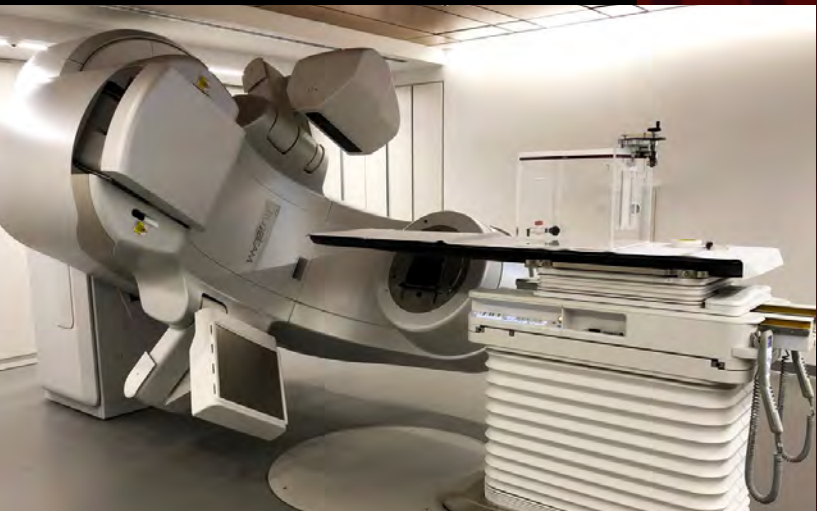




40 Years
of Application Knowledge



500+
Central UPS
Installations Nationally



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