



# Mission Critical Power Unit (MCPU)

**A Comprehensive, Prefabricated Power Solution for the World's Digital Infrastructure.**

## Reliable. Scalable. Always On.

Designed and engineered by Mission Critical Group (MCG), the Mission Critical Power Unit (MCPU) is an innovative prefabricated power module created for rapid deployment and improved reliability. Our MCPU delivers high-availability power distribution and UPS solutions tailored to the unique demands of data centers and digital infrastructure applications.

## Ready for Any Environment.

Whether installed indoors or outdoors, the MCPU is designed to perform in any environment, providing the flexibility, efficiency, and power density needed to support today's mission critical infrastructure. With our MCPU, you get an entire power backbone in a box, with components designed and tested under one roof to maximize quality and reliability.





# Product Specifications

## UPS Systems

- 550kW to 3000kW (N) with multiple paralleled power units for (N+1/2N)
- Configurations with mechanical UPS for liquid cooling applications are available

## Batteries

- VRLA, Lithium, Zinc Chemistries - flexible configurations and runtimes up to 15 minutes

## Switchboard / Switchgear

- Maintenance bypass switchboards - Integrated or standalone options
- Utility, transfer and distribution gear

## Cooling

- DX and CW configurations w/ humidity control

## Fire Suppression

- Dry pipe or clean agent fire suppression w/ VESDA

## Monitoring and Controls

- BMS, EPMS and integrated security options



# Why Choose MCPU?

- **Speed to Market:** The MCPU is prefabricated, fully assembled, and factory-tested, reducing time to operation by allowing manufacturing to occur simultaneously with overall site construction and assisting in improved constructability, startup and commissioning efficiency.
- **Power Density & Flexibility:** With the highest power density available and multiple form factors, the MCPU accommodates 550kW to 3000kW, with voltage options between 400 and 600V.
- **Fully Integrated Solution:** From UPS systems and switchgear to batteries, power distribution, fire protection, and BMS / EPMS and security options, the MCPU delivers a complete, robust solution in one compact module.
- **Adaptable for All Environments:** The MCPU is built for versatility, with configurations suited to any climate and setting, ensuring uninterrupted performance wherever needed.
- **Vertically Manufactured by MCG:** Our modules are meticulously designed, built, and tested, ensuring high-quality standards at every process step.



## Powerful Features for Unmatched Reliability

### Flexible Battery Configurations:

Choose battery chemistry and configurations to meet your specific backup power needs.

### Fully Factory-Tested:

Each MCPU unit undergoes rigorous testing before it reaches your site, ensuring seamless performance and reliability.

### Single-Source

### Manufacturing:

With our integrated delivery approach, every component is designed to work seamlessly together, simplifying installation and maintenance.



## Your Power Solution Simplified.

### Ready to Learn More?

Contact our team to discuss how our MCPU can power your digital infrastructure

[info@missioncriticalgroup.com](mailto:info@missioncriticalgroup.com)  
[www.missioncriticalgroup.com](http://www.missioncriticalgroup.com)