

# Mobile Load Center (MLC)



## Mobile Power Generation and Distribution

Power generation and distribution is vital to nearly all major system applications. Frequently, power provided at a worksite may not be to the specifications required for a specific system – particularly in mobile environments.

For this reason, CACI experts have developed and built various mobile load centers (MLC) for several U.S. Government customers, including the Federal Emergency Management Agency (FEMA), the U.S. Air Force (USAF), and Sandia National Laboratories.

Commercial infrastructure distributes power at high voltage levels. When this power reaches a facility, it generally passes through a transformer for conversion into useable voltage for a particular worksite. Frequently, the useable voltage is either 480 volts-alternating current (VAC), 3-phase, 60 Hz service, or 208 VAC, 3-phase, 60 Hz service. Since there is not a standard set voltage, a mobile system may not be able to connect to power supplied at a particular worksite.

CACI's MLCs can be customized to accept 480 VAC service and provide 208 VAC service or accept 208 VAC service and provide 480 VAC service. Our mobile power experts tailor designs to meet customer voltage and current requirements. If requirements are unknown, CACI will work with a customer and derive requirements to design a system that will best work for the application.

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## Features

- Tailored MLC builds to customer requirements
- More than 28 years of experience constructing MLCs for civilian and U.S. military customers
- Custom built to accept 480 VAC or 208 VAC power
- Designed for operation in outdoor environments
- Equipped with various types of circuit protection

## Benefits

- Rugged design for outdoor operation for mobile solutions
- Easy transportability with carts that can be moved into storage or transported via forklift
- Ability to customize design to power distribution requirements
- Multiple power ratings available per customer requirements

## Mobile Load Center Solutions

Since mobile systems are frequently stored and operated outside, CACI designs its MLCs to operate outdoors. Transformers and circuit protection equipment are housed in rugged NEMA-3R or NEMA-4 enclosures to enable proper function in wet environments. MLCs are built on rugged carts that can be moved on rough terrain and placed into storage or transport using a fork lift. Additionally, MLCs can be equipped with skids by customer request.

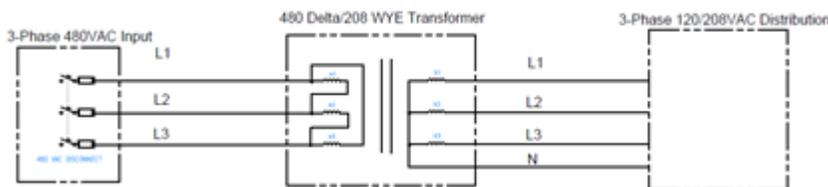
Our experts can outfit MLCs with various types of circuit protection. Fused disconnects are used for main power input protection. Output circuits can be circuit breakers or fused disconnects, depending on distribution requirements. For connections to the MLC, CACI experts can place customer-specified connectors on the MLC, or connections can be a pigtail-type connection. We will fabricate cables with mating connectors to connect to customer equipment based on customer specifications. We offer a variety of power ratings for MLCs, based on customer needs. Typical applications are 45 kVA, 75 kVA, and 112.5 kVA.



MLC roadside view of cart



MLC curbside view of cart



MLC electrical configuration diagram



MLC cart overview

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