Modular Systems

Enclosures: General

UEE Modular Enclosures

For over 20 years UEE has designed and manufactured modular enclosures for use in various applications. During this time, UEE has refined its engineering and manufacturing expertise to successfully execute the design and supply of modular enclosures from the simplistic to the most challenging of applications.

Whether addressing the environmental demands of operation in dusty and hot environments, extreme minus temperatures or heavy snow and rain, or meeting the mechanical demands of heavy industrial use, UEE has the experience and capability to provide standard or custom designed enclosure solutions.

Primarily used to house electrical equipment (e-houses) UEE modular enclosures are engineered for maximum structural integrity. They can withstand extreme wind, seismic and snow load conditions whether mounted on a pad, dragable skid (moveable), trailer (mobile), or on raised supports (piles). If space is limited, or to suit site logistics, UEE modular enclosures can be stacked up to three high and can be equipped with code-approved stairs, landings and walkways.

UEE modular enclosures are typically sized to be shipped as one single module, or can consist of multiple individual modules that are connected on site to provide an enclosure as large and as complex as needed.

Assembled onto a welded HSS steel frame, each modular body is manufactured from 14 ga. precision cut and formed steel and coated with a durable powder coat finish. The enclosure provides NEMA 3R protection for the internal components.

Modular Systems

Customizable

UEE modular enclosures can be configured as bare structures or can be built as complete, self-contained facilities of various functions that ship ready to use. UEE has the expertise to design and manufacture low and high-voltage electrical systems, protection and control systems, assay testing laboratories, and completely habitable enclosures.

Modular enclosures can include:

-interior and exterior lighting and heating;
-cooling and ventilation;
-plumbing for bathrooms, first-aid buildings or laboratory use;
-desks, office furniture, computer equipment;
-fire alarm and fire suppression systems;
-supervisory and remote control equipment;
-a variety of doors, windows, and convenience features.

UEE builds complete electrical enclosures integrating transformers, MCCs, PDCs, switchgear, and gensets with on-site equipment and local utilities. Frames are reinforced to handle equipment floor loading. Heat-study-based HVAC systems, with positive pressure ventilation if necessary, ensure optimum conditions for reliable operation under the harshest environments.

All modular enclosures are constructed from formed steel panels insulated with either rigid foam insulation or special purpose insulation for extreme operational environments and fire-rating specifications. All steel components are coated with durable industrial finishes to prevent corrosion, and are assembled with rivets for resilience and durability. All seams are sealed with industrial sealant to ensure a watertight finished enclosure.

Standards

CSA W47.1 Division 2. CSA A660-10. Canadian Electrical Code.

Typical Specifications

Building Width feet-inches	Building Length feet-inches	Inside Ceiling Height feet-inches	Wind Load mph	Seimic Rating Zone	Roof Load (snow) PSF	Insulation Rating R
11'2" or custom in increments of 16"	18' to 40' or custom in increments of 16"	8' to 9'3" or custom (in some cases up to 10'6")	90 (higher load ratings available)	Seismic Zone 4 (with foundation and anchors)	100 (higher load ratings available)	R14 (higher R values available)

Configurations

- E-house.
- Laboratory.
- Mobile Generator.
- Switchhouse.
- Industrial and Commercial.
- Operator's Cabin.

For additional technical details or specifications, call 1-250-497-5254 or visit ***www.uee.com***.