



Power Plant Electrical Technologies (Pty) Ltd

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PREMI-FLEX (E-House) Prefabricated E-House Design Solutions

Premi-Flex is a mobile and modular solution that is offered as an affordable alternative product to the standard ISO Marine container substations. The design approach caters for project/client specific requirements, but are typically designed for the below applications:

- LV Motor Control Centre,
- Low Voltage Electrical substations,
- Medium Voltage Switchgear Substation,
- Medium Voltage Variable Speed Drives,
- Site and Operational Offices,
- Accommodation Units,
- Ablution Units,
- Kitchen and Dining Units,
- Refrigeration units.

Being a modular solution, Premi-Flex can be designed and manufactured to customer specific dimensions. The below are typical optional extras for the Premi-Flex solution.

- Recta grid walking platform and staircase/s,
- Chromadeck insulated interior (rockwool or polystyrene),
- Steel flooring,
- Roofing and gutter systems,
- Hand/guard rails,
- Air-conditioning,
- Pressurization Fans (cyclone and standard filtered)
- Fire suppression system,
- Access and alarm control,
- Lighting and small power,
- Uninterruptible power supply,
- External lighting,
- Single and Double door entries,
- Floor and wall mounting structures/supports.





Our E-House solutions are fully customizable to meet your specific requirements. For efficient transportation, we offer the **double E-House**, consisting of two interconnected units with a combined footprint equivalent to two containers. This innovative design not only enhances transport efficiency but also maximizes the interior space of the E-House. On-site assembly of the double E-House is a streamlined process, completed in just two steps by seamlessly merging the units.

Our design approach prioritizes key factors such as **safety**, **cooling**, and structural integrity, while also considering site-specific environmental and operational conditions. By optimizing designs with site integration in mind, we reduce the time and costs associated with transportation, earthworks, civil works, and lifting and rigging activities. Every design and manufacturing process adheres to relevant **SANS/IEC Standards** and aligns with our stringent **ISO Quality Management Systems**.



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