

Empowering Your Business with

E-Houses



POWERING CONNECTIONS



Prefabricated Electrical Systems for Rapid Deployment

- ✓ Fully Integrated, Pre-fabricated Substations: Design, engineering, and construction of modular E-Houses (Electrical Houses) as complete, factory-assembled and tested substations, integrating MV/LV switchgear, MCCs, UPS, control systems, and HVAC, for rapid deployment in remote or challenging environments.
- ✓ Reduced Site Installation Time and Risk: Off-site fabrication and comprehensive Factory Acceptance Testing (FAT) minimize on-site construction activities, significantly reducing project schedules, labor costs, and exposure to environmental risks, ensuring faster project completion and commissioning.
- ✓ Customized Design for Specific Applications: Tailored engineering to meet unique project requirements, including specific dimensions, environmental ratings (e.g., desert, offshore), fire suppression systems, and integration of specialized equipment for oil & gas, mining, power generation, and data center applications.
- ✓ Comprehensive Testing Before Delivery: Rigorous testing protocols, including electrical continuity, insulation resistance, functional tests of all integrated equipment, and system integration tests, are performed in a controlled factory environment to ensure flawless operation upon site arrival.

Technical Specifications

Features

- ✓ System Type
- ✓ Enclosure Material
- ✓ Dimensions
- ✓ Environmental Rating
- ✓ Fire Rating
- ✓ HVAC System
- ✓ Integrated Equipment
- ✓ Internal Lighting
- ✓ Cable Entry
- ✓ Compliance

Specifications

- ✓ Pre-fabricated Electrical House (Modular Substation)
- ✓ High-grade Steel (e.g., ASTM A36, S355JR) or Aluminum, with anti corrosion coating
- ✓ Customizable, based on integrated equipment and transport limits
- ✓ IP54 to IP65 (IEC 60529), NEMA 3R/4X (optional), designed for extreme temperatures (-40°C to +55°C)
- ✓ Up to 2 hours (e.g., A120 fire rating for offshore applications)
- ✓ Redundant split-type or package unit AC systems, positive pressure ventilation, dust filtration
- ✓ MV/LV Switchgear, MCCs, UPS, Battery Banks, Transformers, PLC/DCS, SCADA, Fire & Gas Detection, CCTV
- ✓ LED lighting, emergency lighting with battery backup
- ✓ Gland plates, cable trays, or raised floor systems
- ✓ International Building Codes, IEC, IEEE, NFPA, relevant local electrical codes

Why Choose Us?

- 01.** Accelerated Project Timelines: Our E-Houses are delivered as fully integrated, pre-tested units, drastically cutting down on-site construction and commissioning times, enabling faster project completion and earlier operational readiness for your critical infrastructure.
- 02.** Uncompromised Quality and Safety: Fabricated in a controlled factory environment, our E-Houses undergo stringent quality control and comprehensive testing, ensuring superior build quality, enhanced safety features, and reliable performance from day one, minimizing on-site risks.
- 03.** Tailored and Cost-Effective Solutions: Each E-House is custom-engineered to your precise specifications, optimizing space, integrating all necessary electrical and control equipment, and offering a cost-effective alternative to traditional stick-built substations, especially for remote or harsh locations.

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