



E-HOUSE

Frame modul
building

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Description

E-House is a modular mobile home, the body of which is assembled from metal structure and "sandwich" type panels.

Designed for installation of control equipment of 10-110kV transformer substations; 230/400V 50/60 Hz frequency low and control voltage power distribution devices, own operational voltage, relay protection and control devices, process control and electricity metering cabinets can be installed inside.

E-House can be used for various power plants, diesel generator stations, panels, etc., after assessing the customer's requirements for a specific order.

Quick construction at the site and preparation for operation.

Thanks to the modular design, the space is used optimally, various layouts and measurements are possible with the possibility to expand or move to another place if necessary.

Technical Parameters

Ambient temperature	-40 ...+40 °C
Ambient humidity	50 ... 90 %
Degree of protection	Ip44
Degree of fire resistance of load-bearing structures	≥ R45
Interior wall color	RAL 9002, RAL 9010 Other colors are available according to project needs.
Exterior wall color	RAL 9006 Other colors are available according to project needs.
Load of the floor	≥ 500 kg/m2
Flammability class of construction products	not lower than B-s1,d0 for structures used
Heat transfer coefficients	Roof - U=0,22 W/m²K; walls - U=0,22 W/m²K; partitions - U=0,45 W/m²K; floor - U=0,38 W/m²K

Complete set

Indoor and outdoor lighting

A standard rotating handle is installed on the outside of the front door, and a special anti-panic lever is installed on the inside.

Position latches for exterior doors.

According to the needs and requirements, with protective, fire, technological signaling.

Automatic electric heating with remote control option.

Automatic ventilation system with remote control option.

Construction Material

E-House frame	Steel used for metal structures: S275 according to LST EN 10025-2:2005; S355 according to LST EN 10025-2:2005.
Roof covering	100 mm - multi-layer insulating panels PU-PIR-R 100/145.1000 with PIR filler.
Wall covering	100 mm - multi-layer insulating panels PU-PIR-W-ST 100.1100 with PIR filler.
Floor	Floor 170mm - stone wool PAROC EXTRA, frame floor structure and calcium sulfate panels with antistatic PVC coating.

Coating

Anti-corrosion protection of the frame and other structures: hot-melt zinc coating according to LST EN ISO 1461:2009

Fireproof coating if required

Standardized paint coating if required

Standarts

JST 148363514 – 04

LST EN 10025-2

LST EN ISO 1461

LST EN 60529