

Data Sheet no. 8.61/3

Container for mobile HV Test Systems

Application

Containers for mobile HV test systems are used for the arrangement of complete test systems (up to about 100 kV output voltage), for transportation and storage of components (which are assembled to test systems on site) or for arrangement of the control and measuring system. The containers usually correspond to the international standard dimensions resulting in optimum transportability by land, sea and/or air. There are four groups of containers:

Control containers

The container is used as control room during the on-site tests, the related control and measuring equipment as well as the power supplies (e.g. frequency converters for variable frequency resonant test systems) are arranged inside the container (Fig. 1). Control containers are often arranged on trailers (see Data Sheet 8.62). The container is specified as follows:

- Standard 10 ft container (L x W x H = 2991 x 2438 x 2438) according to ISO 668 (color: white)
- Personnel door and one window
- Thermal isolation of floor, walls and ceiling
- Electrical installation (lighting, sockets)
- Opening for power, control and measuring cables

Optional items:

- Air conditioning
- Table for instruments, chair(s)



Fig. 1: Inside a control container for a frequency-tuned resonant test system for cable testing

Transportation and storage container

The components of an on-site test system can be stored and transported inside such a container, equipped with related fixings and a wooden floor. It can be used on site as a very simple control room. Usual features:

- standard 20 ft container (L x W x H = 6058 x 2438 x 2591) according to ISO 668 (color: light grey)
- door for equipment on one side
- wooden floor and fixing elements

Optional items:

- inside hand-operated crane
- two doors



Fig. 2: Inside view of a transportation container

Combined container

Combined containers are 20 ft containers subdivided by a wall or a fence into a control room with personnel door and a storage room with the large equipment door. Each of the two rooms can be equipped as described above. The whole container is thermally isolated. Combined containers may include complete on-site test systems for medium voltage application (Data Sheet 8.03). They are ready for switch on when arrived on test site.



Fig. 3: Combined container on a trailer for HV cable testing (The exciter transformer is arranged inside that container).

Combined container for mobile transformer test systems

The 40 ft high-cube (HC) container is designed for the transportation of the components of the transformer test system. It is divided into 3 major parts: One part for the control and feeding converter CFI, second part for the control room and the last part contains the HV filter. The container is equipped with double winged doors for huge components, personnel doors, and openings for cooling. Additionally to the generally placed HIGHVOLT logo, the user may print its logo on two sides as well.



Fig. 4: 40 ft container for transformer test systems

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