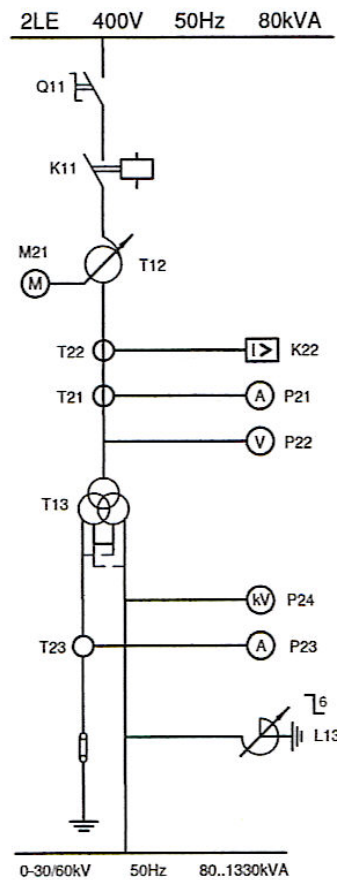


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1 Stationary Test Set PU 80/1330-30/60 kV modular Parallel Resonant System for AC tests on generators according schematic diagram Save 617



1. Technical Specifications

1.1. Principal data

rated output power compact system.	830 kVA
rated output power extended system	1330 kVA
rated supply voltage 50Hz	400 V
high voltage, adjustable	0-30 and 0-60 kV
duty factor	20 %
15min ON / 60min OFF 6 times a day	
input power max.	80 kVA
input current max.	200 A
max. test capacity	at 30 kV basic unit 2.94 μ F
max. test capacity	at 60 kV basic unit 0.73 μ F
max. test capacity	at 60 kV with ext. reactor 1.18 μ F
time-delay type fuse in mains	300 A
weight approx.	4600 kg

1.2. High voltage transformer T12

rated output power	80 kVA
primary voltage	400 V, 50 Hz
secondary no load voltage	2 x 60 kV
primary current	200 A
secondary current	2 x 0.67 A

1.3. Compact reactance coils L13

rated power.	150...750 kVA
inductive reactance, adjustable	75....15 H
rated current	2.5...12.5 A

1.4 Extension reactor L14

rated power.	500 kVA
inductive reactance, adjustable	23 H
rated current	8.3 A

2. Description of Equipment

The test equipment consists of

2 Transformer Units (fig.a and b) arranged on rugged steel frames with lateral lifting hooks and eye canals for transport by crane or forklift. Light weighted Alu-covers protects the stored units against normal weather conditions.

1 Extension reactor in a metal transport frame. The base trough with its 10kV insulators is to be used as a test board.

1 Savety Circuit Equipment with cordon stakes, warning lamps, emergency switches and red/white stop cordons with integrated control cable

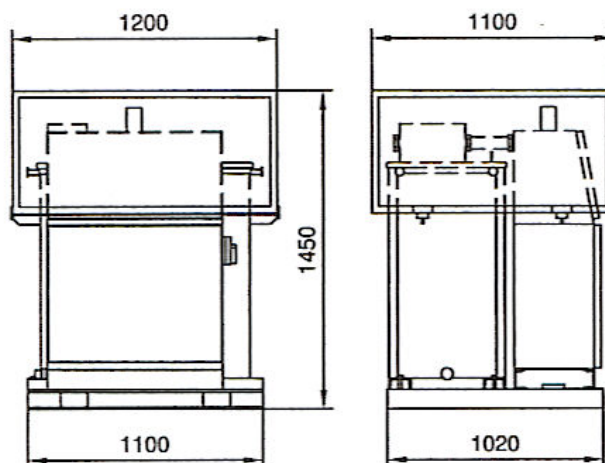
2.1. Control desk - Regulating transformer fig a

All necessary control- protection- and measuring-units are incorporated into the desk. All instruments, push-buttons, control switches including the overcurrent-release potmeter are placed on the front panel.

Security loop and warning lamps are to be connected to subject terminal blocks.

The regulating transformer MIDELOil immersed in a steel tank allows by means of a DC motor M21 with continous adjustable velocity, a continous adjustement of the test voltage.

The current collectors with commutation-diodes are protected by current transmitters T22 and overload relay K22.

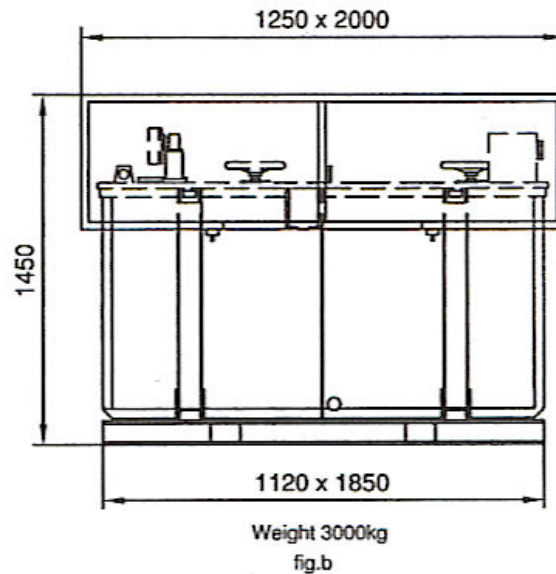


Weight 1150kg
fig.a

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2.2 Compact High Voltage Unit

MIDEL-Oil immersed in separate steel tank acc. fig b with a dismountable plug-in HV bushing and automatic earthing device



2.2.1 1 High voltage transformer T13

the secondary voltage is measured by the capacitive bushing divider and the digital kV-meter P24.

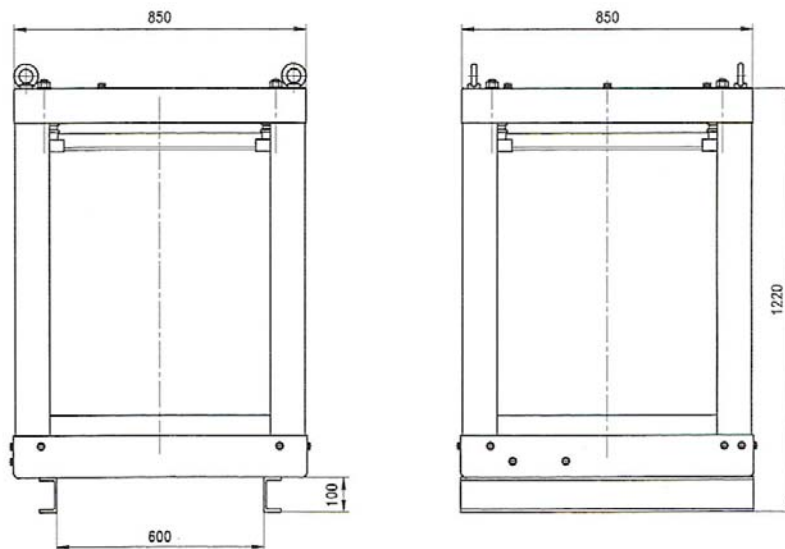
2.2.2. 2 High voltage reactors L13

connected by a HV change over switch allowing the adjustment of the equipments load to the actual test capacitance in 5 steps.
The test current is indicated by means of current transformer T21 and digital A-meter P21.

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2.3 1Extension Reactor DSH 2

Monophase reactor MIDELOil immersed in a cast resin tank with electrodes to extend the test capacity by 500kVA up to 1330kVA.



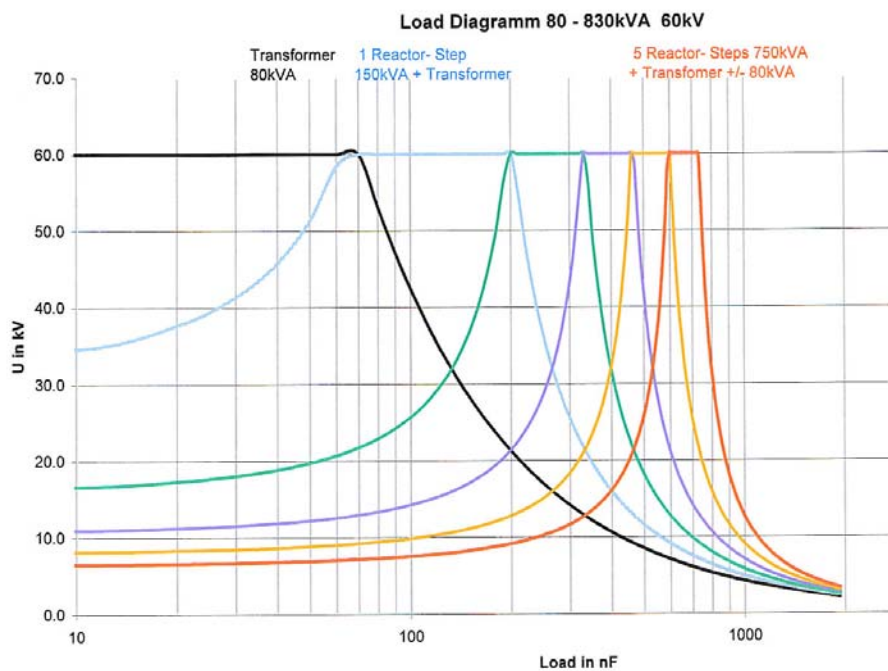
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2.4 1 Safety Circuit Equipment

- in a solid transport box consisting of
- 6 red/white cordon staks each with each with warning lamp and emergency switch as well as
 - 6 red/white stop chains with integrated control cable and HAN plugs

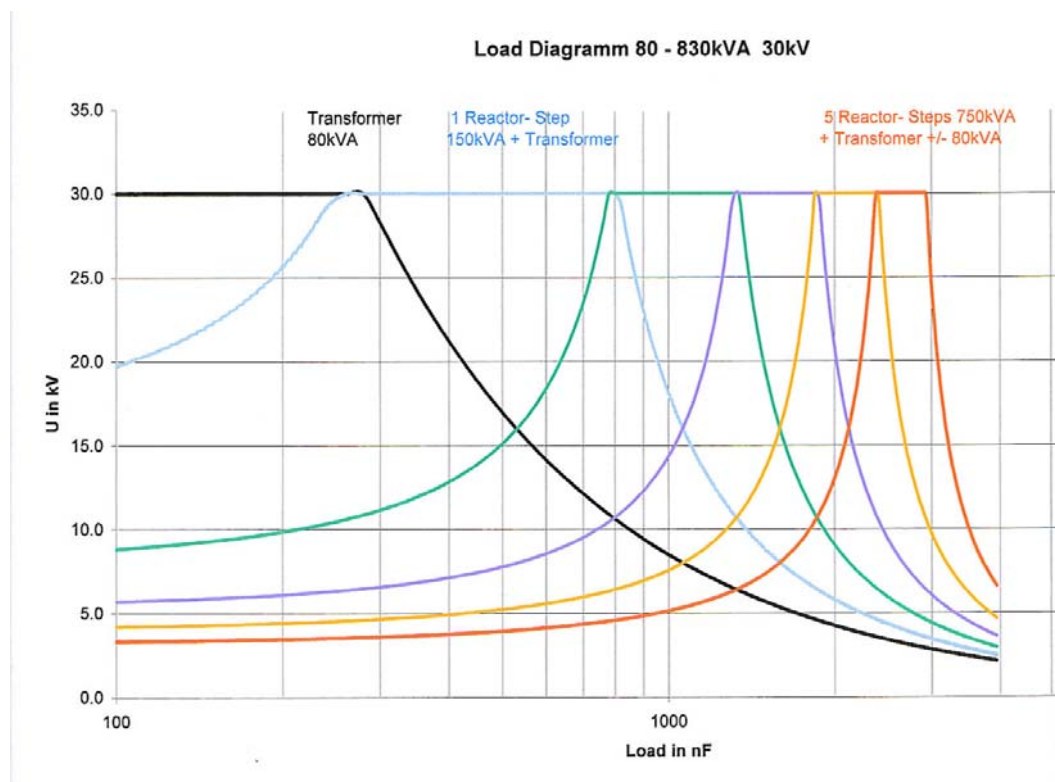
2.5 Ranges of Test Capacity

The compact system alone allows in the **60kV steps** tests up to 870nF



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Tests up to nearly 3 μ F are feasible in the HV unit's **30kV steps**.



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The **Extension Reactor DSH 2** connected in parallel to the 60kV steps extends the test capacitance from 715nF up to 1.4 μ F

