



Transformers TIOG-100/17.5

► Application

The Single-phase sulphur hexafluoride (SF<sub>6</sub>) test transformers TIOG (TIOG-55, TIOG-100, TIOG-250, TIOG-350) are intended for testing high-voltage electrotechnical equipment (current and voltage transformers, power transformers, switches, leadings etc.) of different voltage classes from 3 kV to 330 kV with an AC (50 Hz) test voltages up to 55 kV, 100 kV, 250 kV, 350 kV which corresponds to each TIOG transformer model.

Transformers TIOG are designed for use with both Cable Test Vans and independently on its own as well as a part of a fixed resonance apparatus (TIOG-35/70-50). Thus, TIOGs are resistant to transporting vibration and climatic conditions. The transformer does not require any special maintenance.

The transformer may include a high-voltage capacitor, that, when used with the appropriate measuring devices, makes it possible to measure the insulation capacitance Cx, the dielectric dissipation factor tgδ and the partial discharge (PD) during testing.

The transformer also has a high-voltage winding terminal (inductive voltage divider), that allows measuring the high voltage supplied by the transformer to an object under the test.



Transformer TIOG-55/7.5



Transformer TIOG-35/70-50

► Technical specifications

Parameter	Value				
	TIOG-55	TIOG-100	TIOG-250	TIOG-35/70-50	TIOG-350
Rated AC voltage at primary winding, V	220 (380)	220 (380)	220 (380)	380	380
Rated AC voltage at secondary winding, kV	55	100	250	35 (70)	350
Output current, A, max	0.14 (0.32)	0.075 (0.17)	0.12 (0.08)*	0.7 (0.42)*	0.41 (0.18)*
Max. load capacitance at rated output voltage, pF	8000 (2500)	20000 (5800)	3600	120000	3700 (1620)
Rated power, kVA	7.5 (17.5)	30 (16)*	50	95	95
Insulator (SF <sub>6</sub> ) excess pressure @ 25 °C, MPa	0.35	0.11	0.11	0.13	0.3
Dimensions, mm, max	Ø820x630	Ø464x793	Ø774 x2790	Ø775x1650	Ø1000x4000
Net weight, kg, max	80	90	480	490	2900

\*... duty cycle 1 minute (15 minutes).



Transformer TIOG-15/4.5



Transformer TIOG-250



Transformer TIOG-350