

Specification

100 kV Voltage test system for AC cables testing

The most important parameters:

Functionality	
1.	The AC system must enable conducting tests on power cables in accordance with technical requirements specified in IEC 60060-1 and IEC 60060-2. The Supplier declare 100 kV at maximum load.
2.	Safety system of the AC test system must comply with the SIL CL 3 (optical control cables) in accordance with the IEC 62061 standard.
3.	The AC test system must enable stepless smooth adjustment of the output voltage throughout the whole range specified by the Tenderer.
4.	The Control Panel with the operating system for operators must be in the Polish language with units in the SI system.
5.	The AC test system must be equipped with control panel with the minimum range of displayed parameters: test voltage value, type of test voltage, value of regulator voltage, supply current value, configuration diagram of the test system.

Item	Technical Parameters	Value
1.	Maximum output voltage of the test system	min. 100 kV
2.	Minimum output voltage of the system	max. 5 kV
3.	Maximum rated current of the system for the output voltage 100 kV	min. 80 A
4.	PD level	max. 1 pC
5.	Power supply of the system	400 V AC, max. 150 kVA
6.	Duty cycles at 100 kV 80 A	1 h ON, 1 h OFF
7.	Maximum capacitive load	min. 2500 nF
8.	PD system (with PD calibrator)	Similar: Omicron MPD 800
9.	3 pcs. HV Flexible connections 100 kV	3 m