

HIGH VOLTAGE POWER SUPPLY MODEL HLS-12



Technical Specifications :

Test Voltage : 0 to 12 KV / 50 Hz
Rated Power : 1 KVA Maximum, 100 mA
 (long term) Current Capacity.

This power capacity is adequate for capacitance upto 0.03 μ F at 10 KV & 0.3 μ F at 1 KV. (The H.V. power supply with higher power capacity upto 15 KVA or with a tap at lower voltage for higher current is also available).

Switch for three different types measurement

- 1) **UST** - Ungrounded specimen test. This mode is used when the object under test is not grounded. This test provides most accurate results.
- 2) **GST** - Grounded specimen test. This mode is used when the object under test is permanently grounded. This test is used more often in outdoor installations, systems, etc.
- 3) **GSTg** - Grounded specimen test with guard. This mode is used for measuring stray capacitances and separating them from basic measurement in GST mode.

Indication : Two 3½ digit digital panel meters one for voltage indication with 19.99 KV full scale and other for current indication.

Safety Features :

- Zero start control
- Open ground indication lamp with double grounded connection.
- External interlock
- HT cut off on overload
- HT ON & supply ON indication
- All operating controls at earth potential.
- Necessary terminals & sockets for connection to MLS-11D

Power Required : 230 VAC \pm 10%, 50 Hz

Size : 510 x 550 x 590 mm

Standard Capacitor: Standard capacitor is compressed filled type into HV

SF₆ gas and is built into HV power supply.

Capacitance : 100 pF \pm 5%. actual value is indicated on capacitor.

Tan δ : Less than 0.00001

Dielectric : SF₆

Test Voltage : upto 12 KV RMS.

Max. Voltage

COMPRESSED GAS STANDARD CAPACITOR

Compressed gas standard capacitor is a fixed capacitor used as capacitance standard in bridge circuit for precision measurement of capacitance and $\tan \delta$ of high voltage test objects.

The main feature of these capacitors is negligible dissipation factor ($\tan \delta$).

The electrodes are made of polished metal and enclosed in a suitable housing for protection against dust and moisture. The compressed gas capacitor is filled with sulphur hexafluoride (SF_6) under moderate pressure.



Technical Specifications:

MODEL	CS/100/12	CS/100/20	CS/1000/20
Capacitance	100pf±5%	100 pf±5%	1000pf±1%
Operating Voltage	up to 12 KV rms	up to 20 KV rms	up to 12 KV rms
Max. Voltage (1Min.)	14 KV rms	25 KV rms	14 KV rms
Accuracy of Capacitance	0.1%	0.1%	0.05%
$\tan \delta$	$<1 \times 10^{-6}$	$<1 \times 10^{-6}$	$<1 \times 10^{-6}$
Operating Frequency	50Hz + 10%	50Hz+10%	50Hz+10%
Temp. coeff	<100 ppm	<100 ppm	<100 ppm
Dielectric	SF_6	SF_6	SF_6
Max. Height	370 mm	450 mm	480 mm
Max. Diameter	170 mm	250 mm	340 mm
Weight	6 Kg.	8 Kg.	33 Kg.



For Power Industries

Sivananda Electronics also offers :
High voltage insulation testers upto 5kv (Solid State), compact C and $\tan \delta$ Bridge (30V/80 Hz) oil test system, Resonant power supply, Partial discharge equipment, Surge testers, Transformer winding resistance meters and Transformer ratio meters.

NOTE : To keep pace with the latest technology Sivananda Electronics reserves the right to update it's system. Hence, information in the brochure is likely to change without



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