



HV SF6 or SF6 free Standard Capacitor

CG 800-50

TECHNICAL SPECIFICATIONS

General information

Ensure precise capacitance measurement with the CG800 & CG900 series. Designed for high-voltage calibration and testing, these reference capacitors offer exceptional accuracy and stability.

Main applications

HV Tan Δ & Capa. Standard
 HV AC Accurate divider (See options)
 HV Coupling capacitor std. (60 270 IEC std)

Benefits

Voltage coefficient $\Delta C / [0-U_n] \leq 30$ ppm *
 Capacitance stability / year < 0.05 %
 No or reduced Maintenance
 Sturdiness & reliability over time
 Total operator safety & easy use
 2 years warranty included, 3 or 5 or 10 years in option
 10 years of after sales service guaranteed, over 50 years recorded

Main characteristic

Bulb electrode technology
 SF 6 Gas - 4 bar insulant (Or alternatively NG New Gas, SF6 Free)

Technical data

Nominal Voltage	800 kV rms (Continuous)
Maxi tested Voltage	880 kV rms (1 minute)
Nominal Capacitance	50 pF
Tan delta	< 1.10 ⁻⁵ or << 1.10 ⁻⁵
Partial Discharges level	< 10 pC
Frequency operating	1 Hz up to 1 kHz (At reduced Voltage)
Insulation resistance	> 1 G Ω
HV Terminal - Fixed Socket	Fixing Screw or/ & Hook
Cn Terminal - Fixed Socket	Lemo Coaxial type ERA 3S 250 CTL (Other type on request)
SF6 Fill-in Input	DN 40 ISO-KF

Some of the above technical data are valid at the above-mentioned date but could change without any notice at any time (Ex. dimensions or weight or else...)



Calibration

Vettiner calibration certificate included (ILAC Traceability)*

*External laboratory calibration (ISO 17025,...) under request

Environment

Operating temperature: -10°C up to +50°C
 Storage temperature: -20°C up to +70°C
 Operating Humidity: 1 to 95% (without condensation)
 Altitude: \leq 1000 m or consult us for higher elevation

Pressure & Temperature coeff.

Def	Unit	Value
Pressure coeff.	$\Delta C / p$	+ 2.2.10 ⁻³ / bar
Temperature coeff.	$\Delta C / ^\circ C$	# + 2.10 ⁻⁵ / $^\circ C$
Pressure drift / $T^\circ C$	$\Delta p / ^\circ C$	# 0.02 bar / $^\circ C$




Dimensions & weight

Height	6 350 mm
Base	\varnothing 3 500 mm
Head	\varnothing 3 100 mm
Weight	1 900 kg

Option and accessories

Set of measuring cables & instruments under request

Use as HV AC divider



Accessories	Description
Second measuring electrode Cn2 (/ HV Div.)	5 pF (Other value under request)
0.5% divider with built-in LV capacitance	Ratio 10 000 / 1 (800 kV \rightarrow 80 V) or else
 \leq 0.1% divider with ext. LV Std. Capacitance	Under Request
 Adaptation for special ratio divider	Under Request
 Digital Kilo-Voltmeter (AC & DC Comply)	Under Request

All options and accessories specifications under request

Freight & packaging

Std Capacitor is disassembled for freight & integrated inside a 40 feet container from Vettiner Lyon up to customer site

Use as HV AC divider

Ref	Description	Dimensions & weight
 CG 800-50	Wooden packing / 2 units Horizontal freight	259 x 1 219.2 x 243.8 cm Net crates : 3950 kg \pm 10%
 WOI	40' container compatible (No SF6 during freight)	Gross weight : 5850 kg \pm 10%

Some of the above technical data are valid at the above-mentioned date but could change without any notice at any time (Ex. dimensions or weight or else...)