



HV SF6 or SF6 free Standard Capacitor

# CG 200-50 & CG 200-100

## TECHNICAL SPECIFICATIONS

### General information

Ensure precise capacitance measurement with the CG200 series. Designed for high-voltage calibration and testing, these reference capacitors offer exceptional accuracy and stability.

#### Main applications

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

#### 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 Hydrometry:  $\leq 70\%$  non-condensing  
(Ambiant T° 5°C mini > dew point T°C)

### Main characteristic

Bulb electrode technology  
SF6 Gas - 5 bar insulant (Or alternatively NG New Gas, SF6 Free)

#### Technical data

Nominal Voltage	200 kV rms (Continuous)
Maxi tested Voltage	220 kV rms (1 minute)
Nominal Capacitance	50 pF or 100pF
Tan delta	$< 1.10^{-5}$
Partial Discharges level	$< 2$ pC
Frequency operating	1 Hz up to 1 kHz
Insulation resistance	$> 500$ M $\Omega$
HV Terminal - Fixed Socket	Banana Terminal 4 mm or/& fixing Screw

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...)



Altitude:  $\leq 1000$  m or consult us for higher elevation

#### Benefits

Voltage coefficient  $\Delta C / [0-U_n] \leq 30$  ppm \*  
Capacitance stability / year  $< 0.05\%$   
Capacitance adjustment /  
Nominal capacitance  $< 1.0$  pF  
Accuracy / Capa. Vettiner calibration  $0.05\%$   
Accuracy / Capa. External calibration  $\leq 0.02\%$  \*  
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

Cn Terminal - Fixed Socket  
SF6 Fill-in Input

Lemo Unipole type ERA 3S 140 CTL (Other type on request)  
DN 40 ISO-KF

## Pressure & Temperature coeff.

Def	Unit	Value
Pressure coeff.	$\Delta C / p$	+ 2.2.10 <sup>-3</sup> / bar
Temperature coeff.	$\Delta C / ^\circ C$	$\pm 2.10^{-5}$ / $^\circ C$
Pressure drift / $T^\circ C$	$\Delta p / ^\circ C$	$\pm 0.03$ bar / $^\circ C$



## Dimensions & weight

	CG200-50	CG200-100
Height	158 cm	152 cm
Base	$\varnothing$ 60 cm	$\varnothing$ 60 cm
Head	$\varnothing$ 50 cm	$\varnothing$ 56 cm
Weight	69 kg	85 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 → 80 V) or else
	$\leq 0.1\%$ divider with ext. LV Std. Capacitance Under Request
	Adaptation for special ratio divider Under Request

All options and accessories specifications under request

## Freight & packaging

Ref	Description	Dimensions & weight
	CG 200 -50 WOI Wooden packing 1 unit (UN 3538 & ISPM 15 comply)	182 x 86 x 86 cm Net crates: 90 kg $\pm 20\%$ Gross weight: 160 kg $\pm 20\%$
	CG 200-100 WOI Wooden packing 1 unit (UN 3538 & ISPM 15 comply)	176 x 86 x 86 cm Net crates: 85kg $\pm 20\%$ Gros weight: 170kg $\pm 20\%$

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