



HV Polystyrene Standard Capacitor

CP 30-1000

TECHNICAL SPECIFICATIONS



General information

Main applications

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

Benefits

Voltage coefficient $\Delta C / [0-U_n] \leq 10 \text{ ppm / kV} \rightarrow$
 $\leq 300 \text{ ppm between } 0 \text{ to } U_n (30 \text{ kV})$
 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

Polystyrene capacitor with polystyrene insulant.

Technical data

Nominal Voltage	30 kV
Maxi tested Voltage	36 kV
Rated Capacitance	1000 pF
Tan delta	$< 1.10 \cdot 10^{-4}$ *
Partial Discharges level	Low level but not under control
Frequency operating	1 Hz up to 1 kHz
Insulation resistance	$> 500 \text{ M}\Omega$
Cn Terminal - Fixed Socket	Lemo 3S type
Accuracy / Nominal capacitance	$\leq 5.0 \%$
Accuracy / Capa. Vettiner Calibration	0.05%
Accuracy / Capa. External Calibration	$\leq 0.02 \%$ *

Calibration

Vettiner calibration certificate included (ILAC Traceability)*

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

Environment

Operating temperature: -10°C up to $+50^\circ\text{C}$
 Storage temperature: -20°C up to $+70^\circ\text{C}$
 Operating Hydrometry: $\leq 70\%$; for $H > 70\%$:
 Ambient temp. $5^\circ\text{C} >$ dew point temp.
 Altitude: up to 1000 m, consult us for higher
 elevation application

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...)

Pressure & Temperature coeff.

Def	Unit	Value
Pressure coeff.	$\Delta C / p$	N.A.
Temperature coeff.	$\Delta C / ^\circ C$	$-(125 \pm 30).10^{-6} / ^\circ C$
Pressure drift / $T^\circ C$	$\Delta p / ^\circ C$	N.A.



Dimensions & weight

Height	620 mm
Base	\varnothing 520 mm
Head	\varnothing 420 mm
Weight	30 kg

Option and accessories

Set of measuring cables & instruments under request

Use as HV AC divider

Accessories	Description
Second measuring electrode Cn2 (/ HV Div.)	Under Request
0.5% divider with built-in LV capacitance	Under Request
 $\leq 0.1\%$ divider with ext. LV Std. Capacitance	Under Request
 Tan d Calibrator	- 4 x Tan d Std Values: 5.10-5 - 1.10-4 - 5.10-4 - 1.10-3
Digital Kilo-Voltmeter: AC RMS, Peak, Peak/ $\sqrt{2}$... & DC Comply	Under Request

All options and accessories specifications under request

Freight & packaging

No specific requirement for freight.

Ref	Description	Dimensions & weight
 CP 30-1000 WOI	Wooden packing ISPM 15 comply	970 x 600 x 600 mm Net crates: 37 kg $\pm 10\%$ Gross weight: 67 kg $\pm 10\%$
 CP 30-1000 PPACK	Container ISPM 15 comply	1010 x 500 x 500 mm Net crates: 12.5 kg $\pm 10\%$ Gross weight: 42.5 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...)