

# CP CR500 Compensation Reactor

## Accessory to CP TD1

Testing the isolation quality of rotating machines, cables and other applications with high capacity (100 - 1000 nF) is made comparable light in weight with the CP CR500.

This compensation reactor allows measuring power factor / tangent delta of large motors and generators. In combination with the multifunctional primary test set CPC 100 and the CP TD1, a single CP CR500 compensates capacities of up to 500 nF.

When connecting two CP CR500 in parallel, capacities of up to 1000 nF are compensated.



### Technical Data (with one CP CR500)

<b>Maximum Test Voltage</b>	12 kV rms ( $\geq$ 50 Hz)
<b>Inductors</b>	2 x 40 H
<b>Current Compensation</b>	2 x 1 A
<b>Capacity Compensation</b>	2 x 250 nF (50 Hz) 2 x 500 nF (35 Hz)
<b>Dimensions</b>	457 x 222 x 225 mm / 18 x 8.7 x 8.9 in
<b>Weight</b>	36.8 kg / 81.4 lbs
<b>Order Number</b>	VEHZ0602 (single unit, accessories and transport case) VEHZ0603 (package with two units)

### Benefits

- High power solution made portable due to light weight and small size
- Extensive compensation range by using multiple units and / or changing the test frequency (35 ... 85 Hz)
- More power: Expandable by connecting two devices in parallel

### Compensation range with different configurations and test frequencies

Connection configuration				Capacity and $V_{max}$ at different resonance frequencies						
units	parallel inductances	L [H]	$I_{max}$ [A]	35	42	50	60	71	85	Hz
1	1	40.0	1.0	0.52 / 8.4	0.36 / 10	0.25 / 12	0.18 / 12	0.13 / 12	0.09 / 12	$\mu$ F / kV
	2	20.0	2.0	1.03 / 8.4	0.72 / 10	0.51 / 12	0.35 / 12	0.25 / 12	0.18 / 12	$\mu$ F / kV
2	3	13.3	3.0	1.55 / 7.7	1.08 / 9.3	0.76 / 11	0.53 / 11	0.38 / 11	0.26 / 11	$\mu$ F / kV
	4	10.0	4.0	2.07 / 7.7	1.44 / 9.3	1.01 / 11	0.70 / 11	0.50 / 11	0.35 / 11	$\mu$ F / kV

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Customers in more than 130 countries rely on the company's ability to supply leading edge technology of excellent quality. Broad application knowledge and extraordinary customer support provided by offices in North America, Europe, South and East Asia, and the Middle East, together with a worldwide network of distributors and representatives, make the company a market leader in its sector.

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