

# CPC 100 Package Options

## PACKAGE OPTIONS

### CPC 100 Package Overview

Item No.:	Description:	Packages:	CPC 100 – Standard, VE000611	CPC 100 – Enhanced, VE000621	CP TD1 Test Set, VE000640	CP Transformer Test Set, VE000645
	<b>CPC 100</b> – Multifunctional Primary Test System including hardware and built in software for testing of the CT's, VT's, power transformers, resistance etc. The basic system includes: <ul style="list-style-type: none"> <li>• CPC 100 multifunctional test set hardware 110/230 V 50/60 Hz with AC 800 A; AC 2000 V; DC 400 A</li> <li>• QUICK test card (manual control of the test set)</li> <li>• Transport case with wheels for CPC 100 (VEHP0061)</li> <li>• Carry bag for CPC 100 accessories (VEHP0069)</li> </ul>		✓	✓	✓	✓
VESM0610	<b>CP CT test cards:</b> ratio (V), ratio (I), excitation curve, burden, winding resistance, voltage withstand test (2 kV), Rogowski coils, Low power CT's		✓	✓		
VESM0615	<b>CP VT test cards:</b> ratio, burden, voltage withstand test (2 kV), electronic voltage transformers		✓	✓		
VESM0620	<b>CP transformer test cards:</b> winding resistance, tap changer check, ratio, voltage withstand test (2 kV)		✓	✓		✓
VESM0625	<b>CP resistance test cards:</b> contact resistance ( $\mu\Omega$ ... $m\Omega$ ), winding resistance ( $\mu\Omega$ ... $k\Omega$ )		✓	✓		
VESM0630	<b>CP ramping test card:</b> programmable ramping generator and determination of thresholds			✓		
VESM0635	<b>CP sequencer test card:</b> sequencer test card for testing with different states (required to use CP CU1)			✓		✓
VESM0640	<b>CP GR - ground resistance test option:</b> includes testing software + hardware accessory (VEHZ0660)			✓		
VESM0645	<b>CPOL:</b> polarity checking for CT/VT wiring including software + hardware accessory (VEHZ0650)			✓		
VESM0665	<b>CP TD1 test card:</b> capacitance and dissipation / power factor measurements				✓	✓
VESM0670	<b>CPC editor software:</b> for offline test preparation on a PC		✓	✓	✓	✓
VEHK0612	<b>High current cable set:</b> Standard: 2 x 6 m, 70 mm <sup>2</sup> ( 800 A )		✓	✓		✓
VEHK0617	Alternative: 2 x 9 m, 70 mm <sup>2</sup> ( 800 A )		<input type="checkbox"/>	<input type="checkbox"/>		
VEHK0613	<b>High voltage cable set</b> (2 kV, screened): Standard: 2 x 6 m, 0.5 mm <sup>2</sup>		✓	✓		✓
VEHK0618	Alternative: 2 x 10 m, 0.5 mm <sup>2</sup>		<input type="checkbox"/>	<input type="checkbox"/>		
VEHK0614	<b>Measurement cable set:</b> Standard: 6 x 6 m, 2.5 mm <sup>2</sup> , 1 x 0.5 m, 2.5 mm <sup>2</sup>		✓	✓		✓
VEHK0619	Alternative: 6 x 10 m, 2.5 mm <sup>2</sup> , 1 x 0.5 m, 2.5 mm <sup>2</sup>		<input type="checkbox"/>	<input type="checkbox"/>		
VEHZ0610	<b>High voltage clamps:</b> connection with banana plugs 4 mm (1 red, 1 black + 2 Kelvin clamps)		✓	✓		✓
VEHZ0620	<b>Crocodile clamps</b> for connection of the banana plugs 4 mm (2 red + 2 black)		✓	✓		✓
VEHK0615	<b>Grounding cable</b> (GR/YE) 1 x 6 m; 6 mm <sup>2</sup> with connection clamp		✓	✓	✓	✓
VEHK0622	<b>Ethernet PC connection cable</b> , 3 m		✓	✓	✓	✓
VEHK0623	<b>Low voltage adapter:</b> 4 mm banana to low voltage plug		✓	✓		✓
VEHZ0666	<b>USB memory stick</b> 512 MB		✓	✓	✓	✓

Item No.:	Description:	Packages <sup>1</sup> :	CPC 100 – Standard, VE000611	CPC 100 – Enhanced, VE000621	CP TD1 Test Set, VE000640	CP Transformer Test Set, VE000645
			✓	✓	✓	✓
VESD0601	User manual		✓	✓	✓	✓
VESD0600	Reference manual (included on the CPC Explorer CD-ROM)		✓	✓	✓	✓
VEHZ0665	<b>CP SA1 - surge arrester box</b> for 100 A winding resistance measurement from firmware v1.4 >		✓	✓		✓
VEHZ0644	<b>TH3631- temperature / humidity measurement unit</b> for humidity / ambient & surface temperature measurement					✓
VEHK0621	<b>Power cord</b> C 19; 3 x 1.5 mm; 2.5 m Standard: open ends Alternative: VII connector for most of EU/M.East (VEHK0616) ZA connector for South Africa, Namibia and India (VEHK0620) BS connector for UK, Hong Kong etc. (VEHK0624) Other connectors on request		✓	✓	✓	✓
OS700002	Standard CPC package, single-user version					
OS700004	Upgrade to Enhanced CPC Package, single-user version					
<b>Accessories</b>						
VESM0660	<b>CP amplifier test card:</b> for using the CPC 100 like an amplifier					
VEHZ0660	<b>Ground resistance accessory set:</b> 4 electrodes, 50 m cable reel red, 100 m cable reel black					
VEHZ0630	<b>CP CB2 - current booster up to 2000 A:</b> includes connection cable to CPC (VEHK0611), ground cable w/ clamp (VEHK0615), high current cable set w/ plugs & clamps (VEHK0610), including transport case with wheels (VEHP0071).					
VE000641	<b>CP TD1 - TanDelta / Power Factor upgrade</b> includes: CP TD1 12 kV hardware w/ref capacitor + TanDelta test card, TD1 Accessories (cable drums w/ HV & Measure cables, 20 m) + Trolley; (eIFC card if needed - VEHZ0646)					
VEHZ0601	<b>CP TC12 - 12 kV test cell</b> for measuring permittivity and TanDelta (Power Factor) of insulation liquids like transformer oil					
VEHZ0602	<b>CP CR500 - compensating reactor</b> that includes two inductors rated 40 H each, 2 A compensation w/ inductors paralleled (500 nF)					
VEHZ0671	<b>CP CU1 &amp; CP GB1:</b> includes CP CU1 coupling unit w/ accessories for line impedance, k-factor, mutual coupling, ground impedance, step and touch voltage, and signal cable coupling measurements. Includes CP GB1 grounding box (VEHZ0672). <sup>2</sup>					
VEHZ0690	<b>CP SB1 Standard:</b> Automated turns ratio measurement of three-phase transformers.					
VEHZ0692	<b>CP SB1 Advanced:</b> Automated turns ratio, with dynamic & static resistance measurement of three-phase transformers.					
VEHZ0625	<b>Step and touch voltage set</b> for CP CU1 (incl. CP AL1 FFT voltmeter, pair of foot electrodes, ground electr. and accessory cables					
VEHZ0622	<b>Ground impedance set</b> for CP CU1 (includes: GPS Garmin eTrex, Rogowsky coil, 6 cable reels and 3 ground electrodes)					

<sup>1</sup> Customized packages with individual combinations are available on request.

<sup>2</sup> Requires CP Sequencer Test Card