

CPC 100

Ordering Information



CPC 100 ordering information

CPC 100 Packages

	Description	Ordering No.
CPC 100 Basic Package	Package including CPC 100 and all accessories to perform basic checks on primary assets.	VE000601
CPC 100 Standard Package <small>includes CPC 100 Basic Package</small>	Package including CPC 100 and all accessories to perform common electrical tests on instrument and power transformers.	VE000611
CPC 100 Enhanced Package <small>includes CPC 100 Standard Package</small>	In addition to the standard package powerful tools for substation commissioning are provided.	VE000621
CPC 100 Transformer Test System	Package including CPC 100, CP TD12 and all accessories to perform common electrical tests and power/dissipation factor measurements on power transformers.	VE000633
CPC 100 Line Impedance Test System	Package including CPC 100, CP CU1, CP GB1 and all accessories to perform impedance measurements for determination of distance protection relay settings.	VE000602
CPC 100 Rotating Machines Test System	Package including CPC 100, CP TD15, 3 x CP CR600 and all accessories to perform common electrical tests and power/dissipation factor measurements on rotating machines.	VE000635
CPC 100 PF/DF Test System	Package including CPC 100, CP TD12 and all accessories to perform power/dissipation factor measurements on all assets.	VE000632

CPC 100 ordering information

CPC 100 Upgrade Options

	Description	Ordering No.
CP TD12 Upgrade Option	12 kV upgrade option to expand your existing CPC 100 to a power/dissipation factor test system.	VE000638
CP TD15 Upgrade Option	15 kV upgrade option to expand your existing CPC 100 to a power/dissipation factor test system.	VE000639
CP CB2 Upgrade Option	Upgrade option allowing test currents of up to 2000 A in conjunction with the CPC 100.	VEHZ0630
CP SB1 Upgrade Option	Upgrade option to expand your existing CPC 100 standard package to a fully automated transformer test system. Note: For transformer demagnetization the CP Demag test card has to be ordered separately (order no. VESM0639)	VEHZ0692
CP CU1 and CP GB1 Upgrade Option	Upgrade option to expand your existing CPC 100 to a line impedance measurement test system. Note: CP sequencer test card (order no. VESM0635) and CP line impedance test card (order no. VESM0616) have to be ordered separately	VEHZ0671
Ground Impedance and Step & Touch Voltage Set Upgrade Option	Upgrade option including handheld ground tester HGT1 and accessories for manual testing of ground impedance and step & touch voltages.	VEHZ0708
PTM Advanced for HGT1	Software license for the HGT1 for automated and guided testing of ground impedance and step & touch voltages with PTM.	VESM0626
CPC Sync Upgrade Option for existing CPC	Upgrade option including the TRC1 which allows synchronizing up to three CPC in order to create a powerful source for HV applications.	VEHO0648
CPC Sync Upgrade Option for new CPC	Upgrade option including the TRC1 which allows synchronizing up to three CPC in order to create a powerful source for HV applications.	VEHO0649
CPC 80	Slave unit including accessories for synchronization of CPCs. Note: Only CPC 100 can be used as master and slave unit.	VE000649
CP RC1 Upgrade Option	Upgrade option for high voltage testing on gas-insulated switchgear (GIS) up to 123 kV rated voltage.	VEHZ0760
CP RC2 Upgrade Option	Upgrade option for high voltage testing on gas-insulated switchgear (GIS) up to 145 kV rated voltage.	VEHZ0770

CPC 100 ordering information

CPC 100 Upgrade Options

	Description	Ordering No.
CPOL2 Upgrade Option	Upgrade option to check polarity of a CT's or VT's secondary wiring.	VESM0645
CP TC12 Upgrade Option	Upgrade option for determination of power/dissipation factor and permittivity of insulaton liquids, e.g. transformer oil. It is used in conjunction with the CPC 100 and the CP TD1.	VEHZ0601
CP DB1 Upgrade Option	Upgrade option for faster discharging after a winding resistance measurement on a power transformer.	VEHZ0695
CP CR500 Upgrade Option	Upgrade option for power/dissipation factor measurements on rotating machines in conjunction with the CPC 100 and the CP TD1.	VEHZ0604
PTM Advanced Upgrade Option	Upgrade option to operate your CPC using the guided workflow, depending on available software licences.	VESM0671
PTM DataSync "OnPremises" Upgrade Option	Separate module for data synchronization and back-up:	
	For up to 3 users	VESM0677
	For up to 10 users	VESM0678
	For up to 25 users	VESM0679
PTM DataSync "Web" Upgrade Option	Upgrade for 1 user	VESM0680
	Separate module for data synchronization and back-up:	
	For up to 3 users	VESM0681
	For up to 10 users	VESM0682
	For up to 25 users	VESM0683
	Upgrade for 1 user	VESM0684

CPC 100 ordering information

Packages

	Ordering No.	Description
CPC 100 Basic Package	VE000601	<p>Hardware</p> <ul style="list-style-type: none"> 1 × CPC 100 <p>Software</p> <ul style="list-style-type: none"> 1 × CP Quick card 1 × CPC editor software 1 × PTM Standard (including 30-days trial licence for PTM Advanced) <p>Cables and accessories</p> <ul style="list-style-type: none"> 1 × CPC 100 user manual 1 × Set of 2 standard high-current cables (6 m / 19.68 ft) or optional 1 × set of 2 high-current cables (9 m / 29.53 ft) 1 × Set of 2 standard high-voltage cables (2000 V, 6 m / 19.68 ft) or optional 1 × set of 2 high-voltage cables (2000 V, 10 m / 32.81 ft) 1 × Set of 6 standard measurement cables (6 m / 19.68 ft) or optional 1 × set of 6 measurement cables (10 m / 32.81 ft) 1 × Grounding cable (green / yellow) (6 m / 19.68 ft, 6 mm²) 1 × Ethernet PC connection cable (3 m / 9.84 ft) 1 × Transport case with wheels for CPC 100 1 × Carry bag for CPC 100 accessories 1 × Set of 4 connection clamps for high voltage 1 × Low voltage adapter 1 × Power cord CPC 1 × USB memory stick 1 × Set of 4 crocodile clamps 1 × PTM DVD (including CPC Toolset) 1 × SAA1 - audible beeper dongle 1 × Set of 3 jumper cables (25 cm / 10 in)
<p>CPC 100 Standard Package</p> <p>includes CPC 100 Basic Package plus:</p>	VE000611	<p>Software</p> <ul style="list-style-type: none"> 1 × CP CT test cards 1 × CP VT test cards 1 × CP transformer test cards 1 × CP resistance test cards <p>Cables and accessories</p> <ul style="list-style-type: none"> 1 × CP SA1 Surge Arrestor box
<p>CPC 100 Enhanced Package</p> <p>includes CPC 100 Standard Package plus:</p>	VE000621	<p>Software</p> <ul style="list-style-type: none"> 1 × CP sequencer test card 1 × CP ramping test card 1 × CP GR – ground resistance test option includes testing software and hardware accessory (VEHZ0660) 1 × CPOL2 software and hardware accessory (VESM0645)



CPC 100 ordering information

Packages

	Ordering No.	Description
CPC 100 Transformer Test System	VE000633	<p>Hardware</p> <ul style="list-style-type: none"> 1 × CPC 100 1 × CP TD12 <p>Software</p> <ul style="list-style-type: none"> 1 × CP Quick card 1 × CP transformer test cards 1 × CP sequencer test card 1 × CPC editor software 1 × TanDelta/power factor test card 1 × PTM Standard (including 30-days trial licence for PTM Advanced) <p>Cables and accessories</p> <ul style="list-style-type: none"> 1 × Set of 2 lightweight winding resistance measurement cables (15 m / 49.2 ft) 1 × Set of 2 high-voltage cables (2000 V, 10 m / 32.81 ft) 1 × Set of 6 measurement cables (10 m / 32.81 ft) 1 × Set of 4 connection clamps for high voltage 1 × Set of 4 crocodile clamps 1 × Ethernet PC connection cable (3 m / 9.84 ft) 1 × Low voltage adapter 1 × CP TD accessories set 1 × Set of 12 solid terminal adapters 1 × Transport case with wheels for CP TD 1 × CP TD12 getting started 1 × CPC 100 user manual 1 × Grounding cable (green / yellow) (6 m / 19.68 ft, 6 mm²) 1 × Transport case with wheels for CPC 100 1 × Carry bag for CPC 100 accessories 1 × PTM DVD (including CPC Toolset) 1 × Transport case with wheels for CP TD1 accessories set 1 × CP SA1 surge arrestor box 1 × Power cord CPC 1 × USB memory stick 1 × CP trolley 1 × SAA1 - audible beeper dongle 1 × Set of 3 jumper cables (25 cm / 10 in)



CPC 100 ordering information

Packages

	Ordering No.	Description
CPC 100 Line Impedance Test System	VE000602	<p>Hardware</p> <ul style="list-style-type: none"> 1 × CPC 100 1 × CP CU1 1 × CP GB1 <p>Software</p> <ul style="list-style-type: none"> 1 × CP Quick card 1 × CP line impedance test card 1 × CPC editor software 1 × PTM Standard (including 30-days trial licence for PTM Advanced) <p>Cables and accessories</p> <ul style="list-style-type: none"> 1 × Ethernet PC connection cable (3 m / 9.84 ft) 1 × Transport case with wheels for CPC 100 2 × Grounding cable (green / yellow) (6 m / 19.68 ft, 6 mm²) 1 × CPC 100 user manual 1 × USB memory stick 1 × 3-lead shorting cable (0.3 m / 11.81 in, 10 mm²) 1 × CP CU1 reference manual 1 × Set of 3 CP GB1 surge arrestors 1 × Short circuiting bar (4 mm / 0.16 in, 19 mm / 0.75 in) 1 × Booster connection cable (6 m / 19.68 ft, 3 × 1.5 mm²) 1 × Transport case for CP CU1 1 × Set of 2 cables with Kelvin clamps (6 m / 19.68 ft, 6 mm²) 1 × Coaxial cable (6 m / 19.68 ft) 1 × PTM DVD (including CPC Toolset) 1 × Power cord CPC 1 × SAA1 - audible beeper dongle



Note:

The cables for the high current (800 A AC / 400 A DC) and for the high-voltage (2000 V) outputs are not included in the package. You can order them separately.

CPC 100 ordering information

Packages

	Ordering No.	Description
CPC 100 Rotating Machines Test System	VE000648	<p>Hardware</p> <ul style="list-style-type: none"> 1 × CPC 100 1 × CP TD15 1 × CP CR600 25H 1 × CP CR600 50H 1 × CP CR600 100H <p>Software</p> <ul style="list-style-type: none"> 1 × CP Quick card 1 × CP HV test card 1 × CP resistance test cards 1 × CPC editor software 1 × TanDelta/power factor test card 1 × PTM Standard (including 30-days trial licence for PTM Advanced) <p>Cables and accessories</p> <ul style="list-style-type: none"> 1 × Set of 2 standard high-current cables (6 m / 19.68 ft) or optional 1 × set of 2 high-current cables (9 m / 29.53 ft) 1 × Set of 2 standard high-voltage cables (2000 V, 6 m / 19.68 ft) or optional 1 × set of 2 high-voltage cables (2000 V, 10 m / 32.81 ft) 1 × Set of 6 standard measurement cables (6 m / 19.68 ft) or optional 1 × set of 6 measurement cables (10 m / 32.81 ft) 1 × Set of 4 connection clamps for high voltage 1 × Set of 4 crocodile clamps 1 × Ethernet PC connection cable (3 m / 9.84 ft) 1 × Low voltage adapter 1 × CP TD accessories set 1 × Transport case with wheels for CP TD15 1 × CP TD getting started 1 × CPC 100 user manual 3 × Grounding cable (green / yellow) (6 m / 19.68 ft, 6 mm²) 1 × Transport case with wheels for CPC 100 1 × Carry bag for CPC 100 accessories 1 × PTM DVD (including CPC Toolset) 1 × CP Trolley 1 × Power cord CPC 1 × USB memory stick 1 × CP SA1 surge arrester box 1 × SAA1 - audible beeper dongle 1 × Set of 3 jumper cables (25 cm / 10 in)

¹ Additional CP CR600 according to the customer needs

CPC 100 ordering information

Packages

	Ordering No.	Description
CPC 100 PF/DF Test System	VE000632	<p>Hardware</p> <ul style="list-style-type: none"> 1 × CPC 100 1 × CP TD12 <p>Software</p> <ul style="list-style-type: none"> 1 × CP Quick card 1 × CPC editor software 1 × TanDelta/power factor test card 1 × PTM Standard (including 30-days trial licence for PTM Advanced) <p>Cables and accessories</p> <ul style="list-style-type: none"> 1 × Ethernet PC connection cable (3 m / 9.84 ft) 1 × CP TD accessories set 1 × Set of 12 solid terminal adapters 1 × Transport case with wheels for CP TD 1 × CP TD1 user manual 1 × CPC 100 user manual 1 × Grounding cable (green / yellow) (6 m / 19.68 ft, 6 mm²) 1 × Transport case with wheels for CPC 100 1 × PTM DVD (including CPC Toolset) 1 × Power cord CPC 1 × USB memory stick 1 × CP trolley 1 × SAA1 - audible beeper dongle

CPC 100 ordering information

Packages

	Ordering No.	Description
CPC 80 PF/DF Test System	VE000631	<p>Hardware</p> <ul style="list-style-type: none"> 1 × CPC 80 1 × CP TD12 <p>Software</p> <ul style="list-style-type: none"> 1 × CPC editor software 1 × TanDelta/power factor test card 1 × PTM Standard (including 30-days trial license for PTM Advanced) <p>Cables and accessories</p> <ul style="list-style-type: none"> 1 × Ethernet PC connection cable (3 m / 9.84 ft) 1 × CP TD accessories set 1 × Transport case with wheels for CP TD 1 × CP TD user manual 1 × Grounding cable (green / yellow) (6 m / 19.68 ft, 6 mm²) 1 × Transport case with wheels for CPC 80 1 × PTM DVD (including CPC Toolset) 1 × Power cord CPC 1 × USB memory stick 1 × SAA1 - audible beeper dongle

CPC 100 ordering information

Packages Upgrade Options

	Ordering No.	Description
CP TD12 Upgrade Option	VE000638	<p>Hardware</p> <ul style="list-style-type: none"> 1 × CP TD12 <p>Software</p> <ul style="list-style-type: none"> 1 × TanDelta/power factor test card 1 × PTM Standard (including 30-days trial licence for PTM Advanced) <p>Cables and accessories</p> <ul style="list-style-type: none"> 1 × CP TD accessories set 1 × Set of 4 crocodile clamps 1 × Set of 12 solid terminal adapters 1 × Transport case with wheels for CP TD 1 × CP TD user manual 1 × CP Trolley 1 × PTM DVD (including CPC Toolset)
CP TD15 Upgrade Option	VE000639	<p>Hardware</p> <ul style="list-style-type: none"> 1 × CP TD15 <p>Software</p> <ul style="list-style-type: none"> 1 × TanDelta/power factor test card 1 × PTM Standard (including 30-days trial licence for PTM Advanced) <p>Cables and accessories</p> <ul style="list-style-type: none"> 1 × CP TD accessories set 1 × Set of 4 crocodile clamps 1 × Set of 12 solid terminal adapters 1 × Transport case with wheels for CP TD 1 × CP TD user manual 1 × CP Trolley 1 × PTM DVD (including CPC Toolset)
CP CB2 Upgrade Option	VEHZ0630	<p>Hardware</p> <ul style="list-style-type: none"> 1 × CP CB2 <p>Cables and accessories</p> <ul style="list-style-type: none"> 1 × Booster connection cable (20 m / 65,62 ft, 3 × 1.5 mm²) 1 × High current cable set for CP CB2 1 × Grounding cable (green / yellow) (6 m / 19.68 ft, 6 mm²) 1 × Transport case for CP CB2

Note:

For transformer demagnetization the CP Demag test card has to be ordered separately (order no. VESM0639)

CPC 100 ordering information

Packages Upgrade Options

	Ordering No.	Description
CP SB1 Upgrade Option	VEHZ0692	<p>Hardware</p> <p>1 × CP SB1</p> <p>Cables and accessories</p> <p>1 × RS232 cable</p> <p>1 × Grounding cable (green / yellow) (6 m / 19.68 ft, 6 mm²)</p> <p>2 × 8 pole connection cables (15 m / 49.21 ft, 2.5 mm²)</p> <p>1 × Set of 6 coaxial cables (4 × 6 m / 19.68 ft, 2.5 mm² and 2 × 15 m / 49.21 ft, 2.5 mm²)</p> <p>4 × Set of 2 Kelvin clamps</p> <p>1 × Transport case with wheels for CP SB1</p> <p>1 × Set of 12 flexible terminal adapters</p> <p>1 × PTM DVD (including CPC Toolset)</p> <p>1 × CP SB1 user manual</p> <p>Additional accessories: connection cables</p>
CP CU1 and GB1 Upgrade Option	VEHZ0671	<p>Hardware</p> <p>1 × CP CU1</p> <p>1 × CP GB1</p> <p>Cables and accessories</p> <p>1 × 3-lead shorting cable (0.3 m / 11.81 in, 10 mm²)</p> <p>1 × CP CU1 reference manual</p> <p>1 × Set of 3 CP GB1 surge arrestors</p> <p>1 × Short circuiting bar (4 mm / 0.16 in, 19 mm / 0.75 in)</p> <p>1 × Booster connection cable (6 m / 19.68 ft, 3 × 1.5 mm²)</p> <p>1 × Coaxial cable (6 m / 19.68 ft)</p> <p>1 × Set of 2 cables with Kelvin clamps (6 m / 19.68 ft, 6 mm²)</p> <p>1 × Grounding cable (green / yellow) (6 m / 19.68 ft, 6 mm²)</p> <p>1 × Transport case with wheels for CP CU1 & CP GB1</p> <p>1 × PTM DVD (including CPC Toolset)</p>

Note:

Please quote additionally, if needed:

- CPC line impedance test card (VESM0616)
- CPC sequencer test card (VESM0635) for the sequencer based templates

CPC 100 ordering information

Packages Upgrade Options

	Ordering No.	Description
Ground Impedance and Step & Touch Voltage Set Upgrade Option	VEHZ0708	<p>Hardware</p> <p>1 × Handheld grounding tester HGT1 including accessories</p> <p>Cables and accessories</p> <p>1 × Foot electrode (20 cm x 20 cm)</p> <p>3 × Ground electrode</p> <p>6 × Cable reels (100 m / 328.08 ft, 0.75 mm², black)</p> <p>1 × PTM DVD (including CPC Toolset)</p>
<p>Note:</p> <p>Please quote additionally, if needed:</p> <ul style="list-style-type: none"> • PTM advanced software for HGT1 (VESM0626) to use the PTM Ground Impedance and Step & Touch Voltage tests • CPC sequencer test card (VESM0635) to for the CPC output sequence template • Rogowski coil (VEHZ0623) for reduction factor measurements 		
CPC Sync Upgrade Option for existing CPC	VEHO0648	<p>Hardware</p> <p>1 × TRC1 (One per order)</p> <p>Software</p> <p>1 × Sync license for one CPC</p> <p>1 × PTM Standard (including 30-days trial licence for PTM Advanced)</p> <p>Cables and accessories</p> <p>1 × SYNC CPT board</p> <p>1 × TRC1 safety cable</p>
CPC Sync Upgrade Option for new CPC	VEHO0649	<p>Hardware</p> <p>1 × TRC1 (One per order)</p> <p>Software</p> <p>1 × Sync license for one CPC</p> <p>1 × PTM Standard (including 30-days trial licence for PTM Advanced)</p> <p>Cables and accessories</p> <p>1 × SYNC CPT board (already mounted to CPC)</p> <p>1 × TRC1 safety cable</p>

CPC 100 ordering information

Packages Upgrade Options

	Ordering No.	Description
CPC 80	VE000649	<p>Hardware</p> <ul style="list-style-type: none"> 1 × CPC 80 <p>Software</p> <ul style="list-style-type: none"> 1 × CP Quick card 1 × CPC editor software 1 × PTM Standard (including 30-days trial licence for PTM Advanced) <p>Cables and accessories</p> <ul style="list-style-type: none"> 1 × Grounding cable (green / yellow) (6 m / 19.68 ft, 6 mm²) 1 × Ethernet PC connection cable (3 m / 9.84 ft) 1 × Soft bag for CPC 80 1 × Power cord CPC 1 × USB memory stick 1 × PTM DVD (including CPC Toolset) 1 × SAA1 - audible beeper dongle
CP RC1 Upgrade Option	VEHZ0760	<p>Hardware</p> <ul style="list-style-type: none"> 1 × CP CR4 1 × CP CR6 1 × CP TR8 <p>Software</p> <ul style="list-style-type: none"> 1 × HV resonance test system test card 1 × PTM Standard (including 30-days trial licence for PTM Advanced) <p>Cables and accessories</p> <ul style="list-style-type: none"> 2 × CP RC Y cable 4 m / 13.1 ft black (16 mm²) 2 × CP RC Y cable 4 m / 13.1 ft red (16 mm²) 1 × CP RC cable 1 m / 3.3 ft (16 mm²) 1 × Booster connection cable 6 m / 19.7 ft (3 × 1.5 mm²) 3 × Grounding cable (green/yellow) 6 m / 19.7 ft (6 mm²) 1 × Current transformer KSO104 1 × Terminal adapters 2 × Transport case 1 × CP RC1 user manual

CPC 100 ordering information

Packages Upgrade Options

	Ordering No.	Description
CP RC2 Upgrade Option	VEHZ0770	<p>Hardware</p> <ul style="list-style-type: none"> 1 × CP AT1 1 × CP TR7 3 × CP CR6 <p>Software</p> <ul style="list-style-type: none"> 1 × HV resonance test system test card 1 × PTM Standard (including 30-days trial licence for PTM Advanced) <p>Cables and accessories</p> <ul style="list-style-type: none"> 2 × CP RC Y cable 4 m / 13.1 ft black (16 mm²) 2 × CP RC Y cable 4 m / 13.1 ft red (16 mm²) 1 × CP RC cable 1 m / 3.3 ft (16 mm²) 1 × Booster connection cable 6 m / 19.7 ft (3 × 1.5 mm²) 5 × Grounding cable (green/yellow) 6 m / 19.7 ft (6 mm²) 1 × Power cord 3-pole 1 × Power cord 5-pole 1 × Current transformer KSO104 1 × Terminal adapters 3 × Transport case 1 × CP RC2 user manual
CPOL2 Upgrade Option	VESM0645	<p>Hardware</p> <ul style="list-style-type: none"> 1 × CPOL2 <p>Software</p> <ul style="list-style-type: none"> 1 × Polarity check test card
CP TC12 Upgrade Option	VEHZ0601	<p>Hardware</p> <ul style="list-style-type: none"> 1 × CP TC12
CP DB1 Upgrade Option	VEHZ0695	<p>Hardware</p> <ul style="list-style-type: none"> 1 × CP DB1 <p>Cables and accessories</p> <ul style="list-style-type: none"> 1 × Grounding cable (green / yellow) (6 m / 19.68 ft, 6 mm²) 1 × Carry bag for CP DB1 1 × High-current cable (2 m / 6.56 ft) (70 mm²) 1 × CP DB1 user manual
CP CR500 Upgrade Option	VEHZ0605	<p>Hardware</p> <ul style="list-style-type: none"> 1 × CP CR500 (1 × 40 H, 1 × 80 H)¹ <p>Cables and accessories</p> <ul style="list-style-type: none"> 1 × Grounding cable (green / yellow) (6 m / 19.68 ft, 6 mm²) 1 × Transport case with wheels for CP CR500 1 × CP CR500 cable set 1 × CP CR500 communication cable 1 × CP CR500 connection clamp

Packages Upgrade Options

	Ordering No.	Description
CP CR600 – Upgrade-Option (25 H)	VEHZ0593	Hardware 1 × CP CR600 (1 x 25 H) (including cable set and user manual)
CP CR600 – Upgrade-Option (50 H)	VEHZ0594	Hardware 1 × CP CR600 (1 x 50 H) (including cable set and user manual)
CP CR600 – Upgrade-Option (100 H)	VEHZ0595	Hardware 1 × CP CR600 (1 x 100 H) (including cable set and user manual)

¹ Additional CP CR600 according to the customer needs

CPC 100 ordering information

Hardware

Order no.	Description	CPC 100 Basic Package	CPC 100 Standard Package	CPC 100 Enhanced Package	CPC 100 Transformer Test System	CPC 100 Line Impedance Test System	CPC 100 PF/DF Test System	CPC 100 RotM Test System	CP TD12 Upgrade Option	CP TD15 Upgrade Option	CP CU1 Upgrade Option	CP SB1 Upgrade Option
	CPC 100 > Multi-functional primary test system CPC 100 > Quick test card (manual control of the test set) > Software and accessories according to CPC package overview > CPC Toolset DVD (including 30-days trial licence for PTM Advanced)	■	■	■	■	■	■	■	-	-	-	-
	VE000638 CP TD12 Upgrade Option > CP TD12 capacitance and tan δ test unit > CP TD12 connectors and cables for HV injection (20 m / 65.62 ft) > Foldable trolley with cable drum mountings > CP TD user manual > TanDelta/power factor test card	-	-	-	■	-	■	-	■	-	-	-
	VE000639 CP TD15 Upgrade Option > CP TD15 capacitance and tan δ test unit > CP TD15 connectors and cables for HV injection (20 m / 65.62 ft) > Foldable trolley with cable drum mountings > CP TD user manual > TanDelta/power factor test card	-	-	-	■	-	■	■	-	■	-	-
	VEHZ0642 CP CAL1 > Calibration box to verify / calibrate any CP TD in the field	-	-	-	-	-	-	-	-	-	-	-
	VEHZ0601 CP TC12 > 12 kV oil test cell for measuring permittivity and tan delta (power factor) of insulation liquids	-	-	-	-	-	-	-	-	-	-	-
	VEHZ0692 CP SB1 switch box > CP SB1 for automated turns ratio and dynamic and static resistance measurement of 3-phase transformers > including cable set and user manual	-	-	-	-	-	-	-	-	-	-	■
	VEHZ0695 CP DB1 discharge box > CP DB1 discharge box to speed up the discharge process of a power transformer	-	-	-	-	-	-	-	-	-	-	-

CPC 100 ordering information

Hardware

Order no.	Description	CPC 100 Basic Package	CPC 100 Standard Package	CPC 100 Enhanced Package	CPC 100 Transformer Test System	CPC 100 Line Impedance Test System	CPC 100 PF/DF Test System	CPC 100 RotM Test System	CP TD12 Upgrade Option	CP TD15 Upgrade Option	CP CU1 Upgrade Option	CP SB1 Upgrade Option
	VEHZ0602 CP CR500 (2 × 40 H)	-	-	-	-	-	-	■	-	-	-	-
	VEHZ0604 CP CR500 (2 × 80 H)	-	-	-	-	-	-	■	-	-	-	-
	VEHZ0605 CP CR500 (1 × 40 H, 1 × 80 H)	-	-	-	-	-	-	■	-	-	-	-
	> Compensating reactor allows to test the insulation quality of generators, motors, cables and other systems with large capacitance (including cable set and user manual)											
	VEHZ0630 CP CB2 current booster > Current booster to increase output current range to 2000 A	-	-	-	-	-	-	-	-	-	-	-
	VEHZ0671 CP CU1 + CP GB1 including accessories > CP CU1 coupling unit to make k-factor, cable and ground impedance measurements > CP GB1 grounding box for additional isolation and protection > Kelvin clamps, CP CU1 reference manual, transport case and standard cables for connection and measurement	-	-	-	-	■	-	-	-	-	■	-
	VEHZ0672 CP GB1 with accessories > CP GB1 grounding box > Surge arrestors, grounding studs, grounding socket clamp and grounding cable (2 m / 6.56 ft, 95 mm ²)	-	-	-	-	-	-	-	-	-	-	-
	VEHZ0629 HGT1 > HGT1 handheld grounding tester > Standard cables for connection and measurement > User manual	-	-	-	-	-	-	-	-	-	-	-
	VEHZ0760 CP RC1 resonance circuit > Set to create high-voltage on capacitive loads by means of a power VT: > 1 × CP TR8 isolation transformer > 1 × CP CR4 compensation reactor > 1 × CP CR6 compensation reactor > HV resonance test system test card > Manual, transport case, cable set and terminal adapters	-	-	-	-	-	-	-	-	-	-	-

■ included – not included

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Hardware

Order no.	Description	CPC 100 Basic Package	CPC 100 Standard Package	CPC 100 Enhanced Package	CPC 100 Transformer Test System	CPC 100 Line Impedance Test System	CPC 100 PF/DF Test System	CPC 100 RotM Test System	CP TD12 Upgrade Option	CP TD15 Upgrade Option	CP CU1 Upgrade Option	CP SB1 Upgrade Option
 VEHZ0770	CP RC2 resonance circuit > Set to create high-voltage on capacitive loads by means of a power VT: > 1 x CP AT1 auto-transformer > 1 x CP TR7 isolating transformer > 3 x CP CR6 compensation reactor > HV resonance test system test card > Manual, transport case, cable set and terminal adapters	-	-	-	-	-	-	-	-	-	-	-
 VEHZ0701	MTR1 matching transformer > Customized matching transformer with fixed ratio to match to different voltage levels on the LV side of a dry type transformer	-	-	-	-	-	-	-	-	-	-	-
 VEHZ0793	MTR2 matching transformer > Matching transformer with adjustable turns ratio. Maximum output voltage is configured to match low voltage rating of transformer under test	-	-	-	-	-	-	-	-	-	-	-
 VEHZ0702	CPOL2 polarity tester hardware > Polarity tester hardware > Bag and batteries (4 x AAA)	-	-	■	-	-	-	-	-	-	-	-

CPC 100 ordering information

Software

Order no.	Description	CPC 100 Basic Package	CPC 100 Standard Package	CPC 100 Enhanced Package	CPC 100 Transformer Test System	CPC 100 Line Impedance Test System	CPC 100 PF/DF Test System	CPC 100 RotM Test System	CP TD12 Upgrade Option	CP TD15 Upgrade Option	CP CU1 Upgrade Option	CP SB1 Upgrade Option
VESM0600	CP Quick card	■	■	■	■	■	■	■	-	-	-	-
VESM0610	CP CT test cards Test cards: ratio (V), ratio (I), excitation curve, burden, winding resistance, voltage withstand test (2 kV), Rogowski coils, low power CTs	-	■	■	-	-	-	-	-	-	-	-
VESM0615	CP VT test cards Test cards: ratio, burden, voltage withstand test (2 kV), electronic voltage transformers	-	■	■	-	-	-	-	-	-	-	-
VESM0620	CP transformer test cards Test cards: winding resistance, tap changer check, ratio, voltage withstand test (2 kV), vector group check	-	■	■	■	-	-	-	-	-	-	-
VESM0625	CP resistance test cards Test cards: contact resistance ($\mu\Omega$ – $m\Omega$), winding resistance ($\mu\Omega$ – $k\Omega$)	-	■	■	-	-	-	■	-	-	-	-
VESM0630	CP ramping test card Programmable ramping generator and determination of thresholds	-	-	■	-	-	-	-	-	-	-	-
VESM0635	CP sequencer test card Sequencer test card for testing with different states	-	-	■	■	-	-	-	-	-	-	-
VESM0636	CP 12 kV HV test card Test card with the CP TD1 as high-voltage source either independently or together with the CP CR500	-	-	-	-	-	-	■	-	-	-	-
VESM0637	CP SV-Ratio test card CP SV-Ratio test card to test IEC 61850-9-2 Sampled Values CTs and VTs	-	-	-	-	-	-	-	-	-	-	-
VESM0638	HV resonance test system test card Test card for generation of high voltage by means of resonance circuit	-	-	-	-	-	-	-	-	-	-	-
VESM0639	CP Demag test card Test card for demagnetization of a power transformer by using the CP SB1	-	-	-	-	-	-	-	-	-	-	-
VESM0640	CP GR Ground resistance test card using injection via a current probe without CP CU1 (incl. HW accessories VEHZ0660)	-	-	■	-	-	-	-	-	-	-	-
VESM0645	CPOL2 Polarity checking for CT / VT wiring including software and hardware accessory set	-	-	■	-	-	-	-	-	-	-	-
VESM0660	CP amplifier test card Test module to use the CPC 100 like an amplifier	-	-	-	-	-	-	-	-	-	-	-

■ included – not included

CPC 100 ordering information

Software

Order no.	Description	CPC 100 Basic Package	CPC 100 Standard Package	CPC 100 Enhanced Package	CPC 100 Transformer Test System	CPC 100 Line Impedance Test System	CPC 100 PF/DF Test System	CPC 100 RotM Test System	CP TD12 Upgrade Option	CP TD15 Upgrade Option	CP CU1 Upgrade Option	CP SB1 Upgrade Option
VESM0616	CP line impedance test card	-	-	-	-	■	-	-	-	-	-	-
VESM0671	PTM Advanced software for CPC 100	-	-	-	-	-	-	-	-	-	-	-
VESM0626	PTM Advanced software for HGT1	-	-	-	-	-	-	-	-	-	-	-
VESM0677	Module 'PTM DataSync' - 'OnPremises' for up to 3 users	-	-	-	-	-	-	-	-	-	-	-
VESM0678	Module 'PTM DataSync' - 'OnPremises' for up to 10 users	-	-	-	-	-	-	-	-	-	-	-
VESM0679	Module 'PTM DataSync' - 'OnPremises' for up to 25 users	-	-	-	-	-	-	-	-	-	-	-
VESM0680	Module 'PTM DataSync' - 'OnPremises' upgrade for 1 user	-	-	-	-	-	-	-	-	-	-	-
VESM0681	Module 'PTM DataSync' - 'Web' for up to 3 users	-	-	-	-	-	-	-	-	-	-	-
VESM0682	Module 'PTM DataSync' - 'Web' for up to 10 users	-	-	-	-	-	-	-	-	-	-	-
VESM0683	Module 'PTM DataSync' - 'Web' for up to 25 users	-	-	-	-	-	-	-	-	-	-	-
VESM0684	Module 'PTM DataSync' - 'Web' upgrade for 1 user	-	-	-	-	-	-	-	-	-	-	-

■ included – not included

CPC 100 ordering information

Accessories

Order no.	Description	CPC 100 Basic Package	CPC 100 Standard Package	CPC 100 Enhanced Package	CPC 100 Transformer Test System	CPC 100 Line Impedance Test System	CPC 100 PF/DF Test System	CPC 100 RotM Test System	CP TD12 Upgrade Option	CP TD15 Upgrade Option	CP CU1 Upgrade Option	CP SB1 Upgrade Option
 VEHK0610	High-current cable set for CP CB2 2 x 1.5 m / 4.92 ft, 95 mm ² (black), 2 x 1.5 m / 4.92 ft, 95 mm ² (red), 1 x 0.6 m / 1.97 ft, 95 mm ²	-	-	-	-	-	-	-	-	-	-	-
 VEHK0611	Connection cable to CPC 100 for CP CB2 / CU1 20 m / 65.62 ft, 3 x 2.5 mm ²	-	-	-	-	-	-	-	-	-	-	-
 VEHK0612	Standard high-current cable set 2 x 6 m / 19.68 ft, 70 mm ² (800 A)	■	■	■	-	-	-	■	-	-	-	-
 VEHK0613	Standard high-voltage cable set 2 x 6 m / 19.68 ft, 0.5 mm ² (2000 V)	■	■	■	-	-	-	■	-	-	-	-
 VEHK0614	Standard measurement cable set 6 x 6 m / 19.68 ft, 2.5 mm ²	■	■	■	-	-	-	■	-	-	-	-
VEHK0639	jumper cabel 2 x 25 cm / 10 in (red) 1 x 25 cm / 10 in (black)	-	-	-	-	-	-	-	-	-	-	-
 VEHK0615	Grounding cable (green/yellow) 1 x 6 m / 19.68 ft, 6 mm ² with connection clamp	■	■	■	■	■	■	■	■	■	■	■
 VEHK0617	Optional high-current cable set 2 x 9 m / 29.53 ft, 70 mm ² (800 A)	-	-	-	-	-	-	-	-	-	-	-
 VEHK0618	Optional high-voltage cable set 2 x 10 m / 32.81 ft, 0.5 mm ² (2000 V)	-	-	-	■	-	-	-	-	-	-	-
 VEHK0619	Optional measurement cable set 6 x 10 m / 32.81 ft, 2.5 mm ²	-	-	-	■	-	-	-	-	-	-	-
 VEHK0616	Power cord CPC (EU, Middle East) 3 x 1.5 mm ² , 2.5 m / 8.20 ft, VII	■ ¹	■ ¹	■ ¹	■ ¹	■ ¹	■ ¹	-	-	-	-	-

■ included — not included

¹ Only one power cord with country-specific plug or open end is included per package

CPC 100 ordering information

Accessories

Order no.	Description	CPC 100 Basic Package	CPC 100 Standard Package	CPC 100 Enhanced Package	CPC 100 Transformer Test System	CPC 100 Line Impedance Test System	CPC 100 PF/DF Test System	CPC 100 RotM Test System	CP TD12 Upgrade Option	CP TD15 Upgrade Option	CP CU1 Upgrade Option	CP SB1 Upgrade Option
 VEHK0620	Power cord CPC (ZA, IN, NA) 3 × 1.5 mm ² , 2.5 m / 8.20 ft, ZA/3	■ ¹	■ ¹	■ ¹	■ ¹	■ ¹	■ ¹	■ ¹	-	-	-	-
 VEHK0621	Power cord CPC (open end) 3 × 1.5 mm ² , 2.5 m / 8.20 ft, open ends	■ ¹	■ ¹	■ ¹	■ ¹	■ ¹	■ ¹	■ ¹	-	-	-	-
 VEHK0624	Power cord CPC (GB, HK) 3 × 1.5 mm ² , 2 m / 6.56 ft, BS connector (for GB, HK)	■ ¹	■ ¹	■ ¹	■ ¹	■ ¹	■ ¹	■ ¹	-	-	-	-
 VEHK0629	Power cord set NEMA, 15A and open end 2.5 m / 8.20 ft	■ ¹	■ ¹	■ ¹	■ ¹	■ ¹	■ ¹	■ ¹	-	-	-	-
 VEHK0622	Ethernet PC connection cable 3 m / 9.84 ft, twisted pair cat 5, RJ45 connector	■	■	■	■	■	■	■	-	-	-	-
 VEHK0623	Low voltage adapter 4 mm / 15.74 in banana to low voltage plug	■	■	■	■	-	-	■	-	-	-	-
 VEHK0627	MV-cable set for CP CU1 3 × cables (2 m / 6.56 ft, 95 mm ²) with clamps on both ends to connect the CP GB1 to MV-cable installations	-	-	-	-	-	-	-	-	-	-	-
 VEHK0652	Coaxial cable 6 m / 19.68 ft, 2.5 mm ²	-	-	-	-	■	-	-	-	-	■	■
 VEHK0655	Coaxial cable 15 m / 49.21 ft, 2.5 mm ²	-	-	-	-	-	-	-	-	-	-	■
 VEHK0676	Cable set with Kelvin clamps 2 current cables (red and black) (6 m / 19.68 ft, 10 mm ²) and banana sockets for measurement cables	-	-	-	-	■	-	-	-	-	■	-
 VEHK0677	3-lead shorting cable 0.3 m / 11.81 in, 10 mm ² with 6 mm / 0.24 in plugs	-	-	-	-	■	-	-	-	-	■	-

■ included — not included

¹ Only one power cord with country-specific plug or open end is included per package

CPC 100 ordering information

Accessories

Order no.	Description	CPC 100 Basic Package	CPC 100 Standard Package	CPC 100 Enhanced Package	CPC 100 Transformer Test System	CPC 100 Line Impedance Test System	CPC 100 PF/DF Test System	CPC 100 RotM Test System	CP TD12 Upgrade Option	CP TD15 Upgrade Option	CP CU1 Upgrade Option	CP SB1 Upgrade Option
 VEHK0633	Booster connection cable 0.5 m / 1.64 ft	-	-	-	-	■	-	-	-	-	■	-
 VEHK0634	Booster connection cable 1.2 m / 3.94 ft	-	-	-	-	■	-	-	-	-	■	-
 VEHK0680	Optional lightweight winding resistance measurement cables 2 x 15 m / 49.2 ft, 25 mm ² to output 100A DC with the 400A DC output	-	-	-	■	-	-	-	-	-	-	-
 VEHK0684	Stress relief and clip (incl. instruction lable) for 6 mm plug TD1 high voltage cable	-	-	-	-	-	-	-	-	-	-	-
 VEHK0691	Connection cables for CP SB1 On HV side (8 pole, 15 m / 49.21 ft, 2.5 mm ²)	-	-	-	-	-	-	-	-	-	-	■
 VEHK0692	Connection cables for CP SB1 On LV side (8 pole, 15 m / 49.21 ft, 2.5 mm ²)	-	-	-	-	-	-	-	-	-	-	■
 VEHK0598	RS232 cable, 0.55 m / 1.8 ft	-	-	-	■	-	-	■	■	■	-	-
 VEHK0598	RS232 cable, 1.2 m / 3.94 ft	-	-	-	■	-	-	■	■	■	-	-
 VEHK0601	Transport case with wheels for CPC 100	■	■	■	■	■	■	■	-	-	-	-
 VEHK0602	Transport case with wheels for CP TD1	-	-	-	■	-	■	■	■	■	-	-
 VEHK0603	Transport case with wheels for CP CU1 & CP GB1 or CP CR500	-	-	-	-	■	-	■	-	-	■	-
 VEHK0606	Transport case with wheels for CPC 100 accessories	-	-	-	-	-	-	-	-	-	-	-

■ included – not included

CPC 100 ordering information

Accessories

Order no.	Description	CPC 100 Basic Package	CPC 100 Standard Package	CPC 100 Enhanced Package	CPC 100 Transformer Test System	CPC 100 Line Impedance Test System	CPC 100 PF/DF Test System	CPC 100 RotM Test System	CP TD12 Upgrade Option	CP TD15 Upgrade Option	CP CU1 Upgrade Option	CP SB1 Upgrade Option
 VEHP0069	Carry bag for CPC 100 accessories	■	■	■	■	-	-	■	-	-	-	-
 VEHP0071	Transport case with wheels for CP CB2	-	-	-	-	-	-	-	-	-	-	-
 VEHP0090	Transport case with wheels for CP SB1	-	-	-	-	-	-	-	-	-	-	■
 VEHS0006	Solid terminal adapters (12 pcs)	-	-	-	■	-	■	-	■	■	-	-
 VEHS0009	Flexible terminal adapters (12 pcs)	-	-	-	-	-	-	-	-	-	-	■
VEHZ0600	CP TD accessories set	-	-	-	■	-	■	■	■	■	-	-
 VEHZ0610	Connection clamps for high voltage For connection with banana plugs, 4mm / 0.16 in (2 standard clamps and 2 Kelvin clamps)	■	■	■	■	-	-	■	-	-	-	-
 VEHZ0613	CP TD1 C-Load Reference C-Load for verification of power loss measurements with CP TD1	-	-	-	-	-	-	-	-	-	-	-
 VEHZ0620	Crocodile clamps for connection of the banana plugs, 4 mm / 0.16 in (2 × red and 2 × black)	■	■	■	■	-	-	■	■	■	-	-

■ included – not included

CPC 100 ordering information

Accessories

Order no.	Description	CPC 100 Basic Package	CPC 100 Standard Package	CPC 100 Enhanced Package	CPC 100 Transformer Test System	CPC 100 Line Impedance Test System	CPC 100 PF/DF Test System	CPC 100 RotM Test System	CP TD12 Upgrade Option	CP TD15 Upgrade Option	CP CU1 Upgrade Option	CP SB1 Upgrade Option
 VEHZ0624	Handheld eTrex GPS navigation device for evaluation of distance	-	-	-	-	-	-	-	-	-	-	-
VEHZ0708	Package to measure ground impedance and step and touch voltages of substations. Including handheld grounding tester HGT1 and accessories.	-	-	-	-	-	-	-	-	-	-	-
 VEHZ0635	Pulley for current booster block and tackle including 25 m / 82.02 in rope and carabiners for easily lifting the booster CP CB2	-	-	-	-	-	-	-	-	-	-	-
 VEHZ0639	Foot electrode 20 cm x 20 cm	-	-	-	-	-	-	-	-	-	-	-
 VEHZ0640	CP trolley Comfortable trolley for single person operation in the field with dissipation/power factor test system	-	-	-	■	-	■	■	■	■	-	-
 VEHZ0660	Ground resistance accessory set 4 x electrodes, 1 x cable reel red (50 m / 164.04 ft), 1 x cable reel black (100 m / 328.08 ft)	-	-	■	-	-	-	-	-	-	-	-
 VEHZ0666	USB memory stick	■	■	■	■	■	-	■	-	-	-	-
 VEHZ0675	400 A clamp-on ammeter / multimeter	-	-	-	-	-	-	-	-	-	-	-

■ included – not included

CPC 100 ordering information

Accessories

Order no.	Description	CPC 100 Basic Package	CPC 100 Standard Package	CPC 100 Enhanced Package	CPC 100 Transformer Test System	CPC 100 Line Impedance Test System	CPC 100 PF/DF Test System	CPC 100 RotM Test System	CP TD12 Upgrade Option	CP TD15 Upgrade Option	CP CU1 Upgrade Option	CP SB1 Upgrade Option
 VEHZ0676	Set of 3 CP GB1 surge arrestors Replacement kit with 3 CP GB1 surge arrestors	-	-	-	-	■	-	-	-	-	■	-
 VEHZ0677	Short circuiting bar 4 mm / 0.16 in, 19 mm / 0.75 in	-	-	-	-	■	-	-	-	-	■	-
 VEHZ0678	Hot collar band	-	-	-	■	-	■	-	■	■	-	-
 VEHZ0681	16 mm / 0.63 in cyl. studs and clamp U1 for CP GB1 Studs and grounding socket clamp for CP GB1 for connection on 16 mm / 0.63 in cylindrical grounding studs	-	-	-	-	-	-	-	-	-	-	-
 VEHZ0682	Studs and grounding socket clamp U1 for CP GB1 for connection on 20 mm / 0.79 in ball studs	-	-	-	-	-	-	-	-	-	-	-
 VEHZ0683	Studs and grounding socket clamp U2 for CP GB1 for connection on 25 mm / 0.98 in ball studs	-	-	-	-	-	-	-	-	-	-	-
 VEHZ0623	Rogowski coil Length 2 m / 6.56 ft, 3 7 30 / 300 / 3000 A	-	-	-	-	-	-	-	-	-	-	-
 VEHZ0691	Set of 2 Kelvin clamps	-	-	-	-	-	-	-	-	-	-	■
 X0000089	Primary Test Manager (PTM) DVD	■	■	■	■	■	■	■	■	■	■	■

■ included – not included

CPC 100 ordering information

Safety accessories

Order no.	Description	CPC 100 Basic Package	CPC 100 Standard Package	CPC 100 Enhanced Package	CPC 100 Transformer Test System	CPC 100 Line Impedance Test System	CPC 100 PF/DF Test System	CPC 100 RotM Test System	CP TD12 Upgrade Option	CP TD15 Upgrade Option	CP CU1 Upgrade Option	CP SB1 Upgrade Option
 VEHZ0688	SAA3 - 3-position remote safety switch for CPC 100	-	-	-	-	-	-	-	-	-	-	-
 VEHZ0786	SAA1 - audible beeper dongle	■	■	■	■	■	■	■	-	-	-	-
 VEHZ0717	SAA2 Warning Lamp Set – Basic Package Slim package with one lamp in a small transportation case, including > 1 x SAA2 control unit > 1 x signal lamp > 1 x transport case for 1 signal lamp	-	-	-	-	-	-	-	-	-	-	-
 VEHZ0718	SAA2 Warning Lamp Set – Standard Package Configurable package for up to 4 lamps in one transport case, including > 1 x SAA2 control unit > 1 x signal lamp > 1 x transport case for 4 signal lamps	-	-	-	-	-	-	-	-	-	-	-
 VEHZ0719	SAA2 Extention Kit 1 Signal Lamp Extension kit to configure the Standard Package, including > 1 x signal lamp > 1 x connection cable	-	-	-	-	-	-	-	-	-	-	-

■ included – not included

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