



Comparison between DV Power TWA25K and TWA40D models

Manufacturer	DV Power	DV Power
Model	 TWA25K	 TWA40D
Country	Sweden	Sweden
Input channels for resistance measurement	8; both HV and LV side are measured with a single cable connection	8; both HV and LV side are measured with a single cable connection
Simultaneous HV and LV winding measurement	Yes; since the same test current flows through both HV and LV winding, the result stabilization time is very short	Yes; since the same test current flows through both HV and LV winding, the result stabilization time is very short
DC test current	5 mA to 25 A fully filtered DC current	5 mA to 40 A fully filtered DC current; up to 25 A is available for winding resistance measurement, and currents up to 40 A are available for the three-phase synchronization test
Open circuit test voltage	50 V DC max during both charging and measurement	50 V DC max during both charging and measurement
Measurement accuracy	$\pm (0,1 \% \text{ rdg} + 0,1 \% \text{ FS})$	$\pm (0,1 \% \text{ rdg} + 0,1 \% \text{ FS})$
Resistance measurement range	0,1 $\mu\Omega$ - 2 k Ω	0,1 $\mu\Omega$ - 2 k Ω
Simultaneous resistance measurement of all three phases of the transformer	NO	Yes; the DV-Win software enables the simultaneous resistance measurement of three transformer windings in YN configuration (Quick YN test)
OLTC dynamic resistance measurement resolution	250 Hz (4 ms), which enables on-load tap changer open circuit detection	10 kHz (0.1 ms), which enables detailed on-load tap changer diagnostics
OLTC transition time measurement	YES (low-resolution)	YES
OLTC transition ripple measurement	YES (low-resolution)	YES
Simultaneous DRM of all three phases of the OLTC	NO	YES
Synchronization check of the three phases of the tap changer	NO	YES
AC Current monitoring channel of Tap Changer Motor drive	NO	YES
Series transformer on-load tap changer testing mode	NO	YES
DRM results analysis service	NO	Yes; DV Power experts can provide the analysis of obtained tap changer DRM graphs
Demagnetization feature	YES	YES
Very fast auto safety discharge circuit	YES	YES
Interchangeable cables with Turns Ratio Tester	YES	YES
Computer Interface	The DV Win software (included in the purchase price) enables full control over the instrument with the additional analysis options	The DV Win software (included in the purchase price) enables full control over the instrument with the additional analysis options
Resistance temperature compensation	YES	YES
USB Flash Drive feature for copying the results from instrument internal memory	YES	YES
Built-in Tap Changer Control unit	YES	YES
Dimensions	480 mm x 197 mm x 395 mm	480 mm x 197 mm x 395 mm
Weight	12,5 kg	13 kg
Warranty	3 years	3 years