

HF-CH-202

OWTS Oscillating Wave Test System for 35kV MV Cables



This integrated OWTS oscillating wave test system combines AC series resonance withstand voltage and partial discharge detection. Compliant with IEC 60270, it accurately locates insulation defects for 35kV cables and supports both handover and preventive maintenance tests efficiently.

Key features

- Applicable to handover tests for newly installed cables before commissioning, as well as preventive maintenance tests for aged out-of-service cables.
- Complies with IEC 60270 standard for cable partial discharge measurement.
- Performs distance measurement for cable partial discharge defect points.
- Measures positions of cable joints and full cable length.
- The variable-frequency host automatically boosts voltage according to grid parameters; the notebook system collects test data automatically for easy operation.

Technical specifications

Parameter	Value
Test Object Capacitance	$\leq 0.6 \mu\text{F}$
Maximum Test Voltage	AC 55 kV
Damped Oscillating Wave Frequency Range	30 ~ 300 Hz
Frequency Range of Variable Frequency Series Resonance Withstand Voltage Test	30 ~ 300 Hz
Partial Discharge Measuring Range	10pC ~ 20nC
Partial Discharge Positioning Accuracy	1%
Applicable Cables	Rated voltage $\leq 35\text{kV}$, cross-sectional area: 400mm^2 , maximum cable length: 3km

Standard scope of supply

No.	Item	Qty	Notes
1	Main Variable Frequency Series Resonance Host	1 Set	Core control unit
2	High Voltage Reactor	1 Set	For AC withstand voltage test
3	Damped Oscillating Wave Partial Discharge Detection Module	1 Set	PD testing & positioning component
4	High Voltage Capacitor Divider	1 Pc	Voltage sampling & measurement
5	Partial Discharge Sensor & Signal Acquisition Clamp	1 Set	Collect cable discharge signals
6	High Voltage Connecting Cables & Grounding Wires	1 Set	Connection accessories
7	Industrial Notebook with Test Analysis Software	1 Pc	Built-in operating system & report generation program
8	Power Input Cable	1 Pc	Mains power supply line
9	User Manual (English Version)	1 Copy	Complete operation guidance
10	Factory Calibration Certificate	1 Copy	For overseas project acceptance
11	Product Qualification Certificate	1 Copy	
12	Warranty Card	1 Copy	

No.	Item	Qty	Notes
13	Heavy-duty Shockproof Aluminum Transport Case	2 Pcs	Protect all instruments during sea & land transportation

Compliance and documents

Applicable standards	[TO BE CONFIRMED] standard applied to this model
Calibration certificate	[TO BE CONFIRMED]
Optional accessories	[TO BE CONFIRMED]

Warranty and support

12-month warranty on every exported instrument. English operation manual and remote video guidance at commissioning. T/T, L/C at sight and deposit terms for bulk orders; sea, air or rail shipping.