

HF-TC-646

Transformer Demagnetization Tester



This Transformer Demagnetization Tester effectively removes residual magnetism inside transformer iron cores. It suppresses excessive inrush current during switching-on, prevents protection maloperation and guarantees reliable energization test of transformers.

Key features

- DC resistance supports auto/manual adjustable output current, three-phase simultaneous measurement and unbalance rate calculation.
- Built-in copper/aluminum temperature conversion, historical data comparison and discharge alarm.
- Intelligent hysteresis loop tracking demagnetization, drawing real-time hysteresis curves and monitoring residual magnetism rate.
- ±90V demagnetization output voltage with fast demagnetization; supports AC220V no-load current comparison test.
- 7-inch touch screen, Bluetooth & RS485 communication, built-in printer and 380V mis-wiring protection.

Technical specifications

Parameter	Value
DC Resistance Test	Output Current Auto, 40A, 20A, 10A, 5A, 2A, 1A, 200mA, 100mA, 20mA
Measurement Range	0ohm ~ 20kohm (Three-phase simultaneous: 0~120ohm)
Accuracy	0.2% ±0.1uohm
Minimum Resolution	0.01uohm
Demagnetization Test	Output Voltage ±90V / ±45V
Max Output Current	≤5A
Demagnetization Effect	Residual magnetism rate ≤5%
Minimum Resolution	0.1%
No-load Output	AC220V±10%, 50Hz
Voltage Accuracy	0.5% ±1V
No-load Current Measurement	0~500mA, Accuracy 1.0% ±0.2mA
Overall Specifications	Working Temperature -20℃ ~ 40℃
Ambient Humidity	≤80% RH, non-condensing
Power Supply	AC220V±10%, 50Hz±1Hz
Dimensions	412mm × 290mm × 330mm
Net Weight	22.5Kg

Standard scope of supply

No.	Item	Qty	Notes
1	Main Tester Unit	1 Set	HF-TC-646 DC resistance & demagnetization integrated instrument
2	High-current Test Cable Set	1 Set	Three-phase measuring wires with alligator clamps
3	Power Supply Cable	1 Pcs	AC220V mains cord
4	USB Communication Cable	1 Pcs	For PC connection

No.	Item	Qty	Notes
5	Bluetooth Communication Module	1 Pcs	Built-in optional, as configured
6	Thermal Printing Paper	2 Rolls	Spare paper for built-in printer
7	Operation Manual (English & Chinese)	1 Copy	
8	Factory Calibration Certificate	1 Copy	
9	Quality Warranty Card	1 Copy	
10	Hard Transport Case	1 Pcs	Shockproof carrying case
11	Spare Fuse	2 Pcs	For maintenance

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.