

HF-TC-615

Transformer Energy Efficiency Tester



Transformer Energy Efficiency Tester accurately measures no-load loss, load loss and other electrical parameters of distribution transformers. It automatically calculates energy efficiency grades with stable test data, suitable for factory delivery inspection and on-site energy efficiency evaluation of power transformers.

Key features

- Harmonic Analysis Function Measures harmonic content ratio and total harmonic distortion rate, with original waveform and bar chart display.
- Dual AC/DC Power Supply Adaptively powered by built-in lithium battery or 220V AC charger.
- Intelligent Charging Management Real-time remaining power display, low battery alarm and automatic backlight adjustment for power saving.
- Thermal Printing Function Fast and silent on-site report printing.
- User-friendly Human-machine Interface Real-time USB connection status indicator on the top status bar; clear pop-up reminders when operating disconnected peripherals.

Technical specifications

Parameter	Value
1	Basic Measurement Accuracy Voltage & Current: $\pm(0.2\% \text{ of reading} + 2 \text{ digits})$ Power ($0.2 \leq \cos\phi \leq 1$): $\pm(1.0\% \text{ of reading} + 2 \text{ digits})$ Capacity: $\pm(10\% \text{ of reading} + 2 \text{ digits})$
2	Capacity Measuring Range 30kVA ~ 65000kVA
3	Voltage Measuring Range AC 50V ~ 850V
4	Current Measuring Range AC 0.5A ~ 100A
5	Operating Temperature $-10^{\circ}\text{C} \sim 40^{\circ}\text{C}$
6	Ambient Humidity 10% ~ 85%
7	Storage Temperature $-20^{\circ}\text{C} \sim 50^{\circ}\text{C}$
8	Overall Dimension 320mm $\times$ 270mm $\times$ 145mm
9	Weight 5kg (excluding test cables)

Standard scope of supply

No.	Item	Qty	Notes
1	Transformer Energy Efficiency Tester Main Unit	1 Set	Built-in battery and inverter power supply
2	Three-phase High Voltage Test Cables	3 Pcs	Red / Yellow / Black
3	Three-phase Current Test Wires	3 Pcs	With insulated terminals
4	Alligator Clip Connectors	6 Pcs	For transformer wiring connection
5	220V AC Power Charger	1 Pcs	For battery charging
6	USB Data Cable	1 Pcs	Data export and PC communication
7	Thermal Printer Paper Rolls	2 Rolls	Spare printing paper
8	User Manual	1 Copy	English version
9	Calibration Certificate	1 Copy	Factory test report
10	Portable Hard Carry Case	1 Pcs	Shockproof and dustproof

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.