

HF-TC-648

Transformer No Load and Load Loss Tester



This Transformer No Load and Load Loss Tester accurately measures transformer no-load loss, load loss, voltage, current and power factor. It automatically completes data calculation and temperature conversion for factory inspection and on-site acceptance tests.

Key features

- Equipped with a 240×128 dot matrix LCD screen, simultaneously displaying three-phase voltage, current, low-side voltage, power, power factor and other parameters.
- Capable of measuring no-load current, no-load loss, short-circuit voltage and short-circuit loss of various transformers.
- Wide linear range, excellent repeatability and stable performance.
- Ensures accurate power factor measurement from 0.000 to 1.000, especially suitable for low power factor load testing.
- Convenient data hold function guarantees timeliness of measured data and easy operation.

Technical specifications

Parameter	Value
Product Name	HF-TC-648 Transformer No-Load & Load Loss Tester
Applicable Test Items	No-load loss, load loss, short-circuit voltage, zero-sequence impedance, no-load current
Reference Standard	DL/T 1256-2013
Voltage Range	0~500V (Max withstand 750V)
Current Range	0~60A, auto range switching
Voltage & Current Accuracy	±0.2% ± 2 digits
Power Accuracy	±0.5% (CosPhi>0.1); ±1.0% (0.02<CosPhi<0.1)
Power Factor Range	0.000~1.000
Harmonic Analysis	2nd ~ 42nd harmonic, THD measurement
Display	240×128 LCD, real-time waveform display
Function	Waveform correction, temperature correction, data storage & printing, built-in RTC clock
Operating Temperature	-10°C ~ +40°C
Insulation Test	AC 2kV / 1min; Insulation resistance ≥100Mohm
Dimensions	38cm × 28cm × 15cm
Net Weight	3kg

Standard scope of supply

No.	Item	Qty	Notes
1	Main Tester Unit	1 Set	HF-TC-648 host
2	Voltage Test Cable Set	1 Set	3-phase voltage leads
3	Current Test Cable & Clamp	1 Set	For current signal access
4	AC220V Power Cord	1 Pcs	Mains supply cable
5	Thermal Printing Paper	2 Rolls	Spare for built-in printer
6	Operation Manual (English & Chinese)	1 Copy	

No.	Item	Qty	Notes
7	Factory Calibration Certificate	1 Copy	
8	Warranty Card	1 Copy	
9	Shockproof Carry Case	1 Pcs	For transportation protection
10	Spare Fuse	2 Pcs	Consumable spare part

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.