

TCT-12C



Accurate transformer capacity, load, and no-load performance testing with harmonic analysis and auto-correction

The TCT-12C Transformer Capacity / Load / No-Load Tester is a multifunctional device designed for accurate measurement and analysis of transformer performance parameters. It provides automatic detection of transformer capacity, no-load, and load characteristics, including harmonic analysis and auto-correction functions. Ideal for on-site or laboratory testing of various types of power transformers.

Key Features

- Automatic measurement of transformer capacity, load, and no-load parameters
- Built-in harmonic analysis and waveform auto-correction
- Supports single-phase and three-phase transformers
- Wide measurement range and high accuracy
- LCD display with intuitive menu navigation
- Automatic data storage and USB export
- Over-voltage and short-circuit protection
- Lightweight and portable design for field applications

Ideal for

- Power transformer testing and maintenance
- On-site transformer inspection and analysis
- Factory acceptance and commissioning testing
- Electrical service and calibration laboratories

Transformer Capacity / Load / No-Load Tester

Technical Specifications

TCT-12C Transformer Capacity / Load / No-Load Tester	
Measurement functions	Transformer capacity, load, no-load loss, short-circuit impedance, harmonic analysis, Percentage of no-load loss Po%, no-load current Io%, Load loss, impedance voltage, and the percentage of short-circuit impedance: Pt, ekt, Zt, and UK(%)
Applicable transformer types	Single-phase and three-phase
Capacity measurement range	30 kVA–31,500 kVA
Accuracy	±0.5% (typical)
Voltage measurement range	0 – 750 V
Current measurement range	0 – 100 A
Frequency range	45 Hz – 65 Hz
Display	5.7-inch colour LCD screen
Data storage	Automatic save and USB data export
Communication interface	USB / RS232 (optional)
Protection	Overvoltage, overcurrent, and short-circuit protection

Standard Accessories

- TCT-12C main unit (with carry case)
- Voltage and current test leads
- USB communication cable
- Power cable
- User manual and calibration certificate



Power Supply

AC 220 V ±10%, 50/60 Hz

Safety Standards

IEC 61010-1, CE compliant

General Specifications

Part Numbers / Optional Accessories		
Code	Item	Part Number
TCT-12C	Transformer Capacity / Load / No-Load Tester, 10–100,000 kVA, single & three phase	988012

Mass
8 kg

Dimension
400 x 320 x 180 mm (approx.)

Operating
–10°C to +50°C, ≤70% RH

Storage
–20°C to +60°C, ≤80% RH

Services
1-year warranty (subject to product registration with GPS Ltd)
Please contact for more information.

www.gpslimited.com/TCT-12C
For all enquiries, Tel: +44 (0) 208 964 3600
Email: info@gpslimited.com