

# KPM Transformer Power Loss Analyzer ( KPM TPL - 01 )

## Introduction

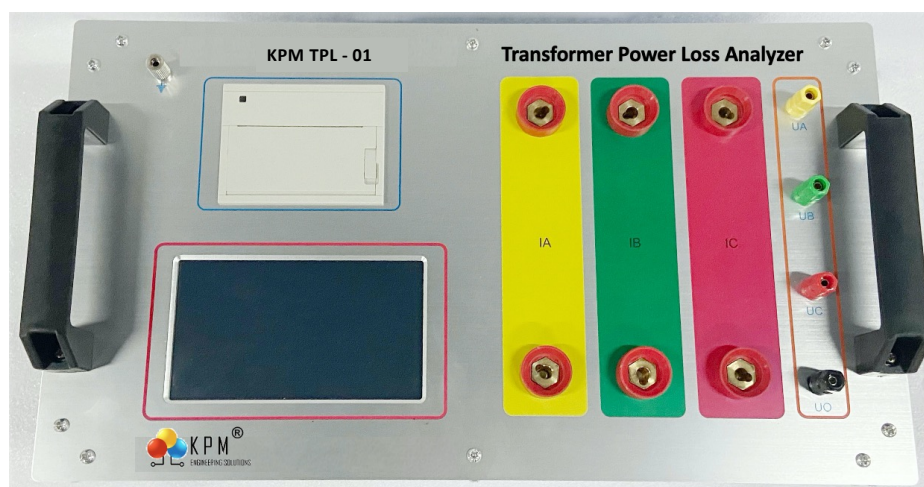
Power transformer as an important electrical equipment, its safe and reliable operation is extremely important for power systems. After the impact of short-circuit current, the transformer winding deformation test is very important.

The short-circuit impedance method measures the short-circuit impedance of the operating frequency. The test result is mainly leakage reactance component, determined by the geometry of the winding. The change of the transformer winding structure will cause changes of the transformer leakage reactance, resulting in transformer short circuit impedance numerical changes.

The tester follows IEC60076-5-2006. also , the tester can also be used for generator rotor AC impedance test, transformer load and no load loss test.

## Characteristics

1. Using six channels of AD chip of 16 bits;
2. With seven inch LCD touch screen of which the brightness can be adjusted;
3. With thermal printer of which the print thick can be adjusted;
4. It could store fifty groups of SCI data and thirty groups of GAI data, which could be read to current screen or upload to the PC;
5. With PC software using which we could upload data ,test, analyze data, print data, or create word document;
6. Using USB2.0 to connect to the device ;
7. Tester dimension : 49X31X25cm ;
8. Weight : 8.0KG;
9. Power : AC220V±10%, (50 or 60)HZ ;
10. Environment : -10°C ~ 50°C humidity <90%;



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## Specifications

- 1、 AC impedance : 0 ~ 999.999Ω  
0.2%±2 digits
- 2、 AC voltage : 0 ~ 600V 0.2%±2 digits
- 3、 AC ampere : 0 ~ 120A 0.2%±2 digits
- 4、 Active power :  $\cos\phi > 0.1$  0.5%±2 digits  
 $\cos\phi < 0.1$  1.0%±2 digits  
Reactive power : 0.2%±2 digits
- 5、 Frequency : 45 ~ 65HZ 0.1%

Transformer Short-circuit impedance test setting interface

Generator AC Impedance interface

Phase	I (A)	Uavg (V)	Urms (V)	P (W)
AB				
BC				
CA				
3-phase				
COS φ :		V distortion (%) :		No-load loss (W) :
Freq (Hz) :		V imbalance (%) :		No-load current (%) :

Run Stop Save Return

Transformer No-load test running interface

Phase	I (A)	U (V)	Zk (Ω)	Xk (Ω)	Lk (mH)	Zke (%)	Nameplate Zke
AB							
BC							Measured Zke
CA							
Error							Zke Error
Std.							

TRated (°C) TAmbient (°C) fRated (HZ)

TCorrection Fcorrection Standard Print Analyse Return

KPM ENGINEERING SOLUTIONS PVT. LTD.  
815 A, 8th Floor, Unitech Arcadia, Sec 49,  
Gurugram – 122018 ,Haryana  
Website : [www.kpmtek.com](http://www.kpmtek.com)  
Email : [info@kpmtek.com](mailto:info@kpmtek.com)  
Phone No : +91 124 4001088

