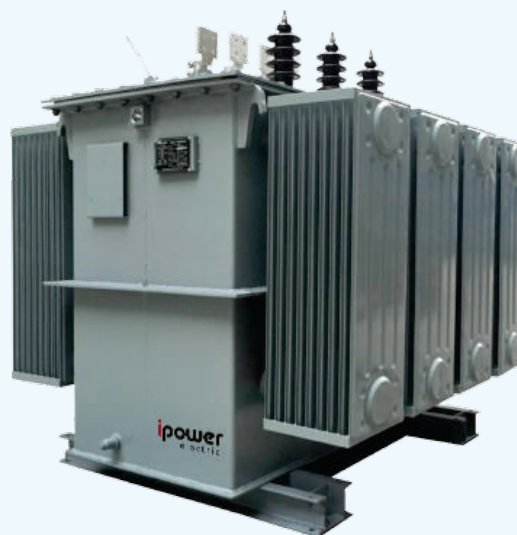




ELECTRIC INTEGRATED INC.

100 kVA UP TO 2000 kVA OIL FILLED DISTRIBUTION TRANSFORMER



TECHNICAL SPECIFICATIONS

General Specification		List of Fittings and Accessories
Make & Type	iPOWER Electric Company 3-ph, Oil Filled Distribution Transformer	a) No Load Tap Changer b) Rating & Ter. Marking Plate/ Monogram etc. c) Earthing Terminals d) Lifting Lugs for Transformer Tank & Cover e) Air release plugs f) Thermometer pocket (without Thermometer) g) Valves (Filter/ Drain) h) Plain oil level Indicator i) Pressure relief device with trip contact j) Weather proof Marshalling Box k) Silica gel Breather l) Bi directional Roller m) Detachable Radiators n) Magnetic oil level gauge
Reference Standard	IEC:60076	
Rated Power	100 kVA to 2000 kVA	
Rated Voltage	[H.V. Winding] 2.4 kV to 40.5 kV [L.V. Winding] 220V / 380V / 400V/ 440V	
Voltage Ratio	As per rating	
Frequency	60	
Type of Cooling	ONAN/ONAF	
Rated Power	[H.V. Winding] As per Rating	
w.r.t. cooling	[L.V. Winding] As per Rating	
Rated Current	[H.V. Winding] As per Rating	
w.r.t. cooling	[L.V. Winding] As per Rating	
Temperature rise over ambient of 45°C		
a) Winding	[By Resistance] 55 °C	
b) Top Oil	[By Thermometer] 50 °C	
Winding Connection	[H.V. Winding] Delta / Star [L.V. Winding] Delta / Star [Vector Group] Dyn11 /Yd11 /Dd0 /Dy1 / Yd5 /Yy6 /Dd6 /Yd1 / Dy5	
Technical Characteristics		
No Load Loss at rated Voltage and Frequency	As per Rating	
Load Loss at rated current at 75°C at 100% Load	As per Rating	
Impedance at rated voltage and frequency	6.25 % (IEC Tol)	
Tolerance of Impedance & Losses	As Per IEC: 60076	
Tapping Detail	Range Type +5% to -15% with OLTC Taping Steps 9 of 1. 25%	
No Load Current as % of full load current	≤ 2%	
Regulation in % of no load voltage		
a) At 1.0 p.f	100% Load 1.256 %	
b) At 0.8 p.f. (lg)	100% Load 4.640 %	
Efficiency in percentage at 75°C		
a) At 1.0 p.f.	1.00 Load 98.814	
b) At 1.0 p.f.	0.75 Load 99.032	
c) At 1.0 p.f.	0.50 Load 99.206	
d) At 1.0 p.f.	0.25 Load 99.206	
Basic Insulation Level withstand		
a) H.V. Winding	[Lightning Impulse] 95 kVp [Power Frequency] 38 kVrms	
b) L.V. Winding	[Lightning Impulse] - kVp [Power Frequency] 3 kVrms	
Overall Dimensions		
Approx. Mass	[Core & Winding] As per Rating [Tank & Fittings] As per Rating [Oil] As per Rating [Total] As per Rating [Volume of Oil] As per Rating	
H.V. Terminal Arrangement	Cable Box	
L.V. Terminal Arrangement	Busduct	