

ELECTRIC INTEGRATED INC.

500 kVA UP TO 5000 kVA CABINET TYPE POWER TRANSFORMER



TECHNICAL SPECIFICATIONS

General Specification			List of Fittings and Accessories
Make & Type		iPOWER Electric Company	a) NLTC
		3-ph, Cabinet Type Power Transformer	b) Rating & Ter. Marking Plate/ Monogram etc.
Reference Standard		IEC:60076	c) Earthing Terminals
Rated Power		500 kVA to 5000 kVA	d) Lifting Lugs for Transformer Tank & Cover
Rated Voltage	[H.V. Winding]	2.4 kV to 40.5 kV	e) Air release plugs
	[L.V. Winding]	220V / 380V / 400V/ 440V	f) Thermometer pocket (without Thermometer)
Voltage Ratio		As per rating	g) Valves (Filter/ Drain)
Frequency		60	h) Plain oil level Indicator
Type of Cooling		ONAN/ONAF	i) Pressure relief device with trip contact
Rated Power	[H.V. Winding]	As per Rating	j) Weather proof Marshalling Box
w.r.t. cooling	[L.V. Winding]	As per Rating As per Rating	k) Silica gel Breather
Rated Current	[H.V. Winding]		Bi directional Roller
w.r.t. cooling	[L.V. Winding]	As per Rating	m) Detachable Radiators
Temperature rise over		As per Rating	,
a) Winding	[By Resistance]		n) Magnetic oil level gauge
b) Top Oil	. ,	55 °C	o) Elbow terminals are included, arresters are included
, !	[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 Characteri	istics		
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	
rapping Dotain	Taping Steps	5 of 1. 25%	
No Load Current as %		≤ 2%	
Regulation in % of no		≥ ∠ /0	
a) At 1.0 p.f	100% Load	1.256 %	
, ,		4.640 %	
b) At 0.8 p.f. (lg) 100% Load Efficiency in percentage at 75°C		4.040 %	
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 Arrange	ment	Busduct	