



# TRANSFORMER TECHNICAL DATA SHEET

PEL - PAK ELEKTRON LIMITED - LAHORE

Customer: M/s PEL Standard TR 2500kVA(Step Up 0.4/11)

## General Specification

Rated Power [kVA]	2500	Vector Group	YNd 11
Rated High Voltage [V]	11000	Connections [HV/LV]	Star/Delta
Rated Low Voltage [V]	400	No. of Terminals [HV/LV]	4/3
Number of Phases [ $\phi$ ]	3	HV Bushings position	Top plate
Insulation Class	A	LV Bushings position	Top plate
No. of HV Taps	6	Winding Material [HV/LV]	Copper/Copper
Taps [+%]	2.5,5.0	Service Altitude [m]	<1000
Taps [-%]	2.5,5.0,7.5	Transformer Type	Oil immersed/Conservator
Maximum Ambient Temp. [°C]	40	Installation	Indoor/Outdoor
Temp. Rise (Oil/Winding) [K]	60/65	Oil Type	Mineral Oil (IEC 60296)
Type of Cooling	ONAN	Standard/Specs.	IEC 60076

## Technical Specifications

No-Load Loss [kW]	3.300	Basic Insulation	HV	LI 75	AC 28
Load Loss at Principal Tap [kW]	27.000	Level (BIL) [kV]	LV	LI --	AC 03
Impedance [%]	6.0	Regulation ( $\Delta V$ ) at 1.0 PF & Rated Current			1.25%
HV Line Current [A]	131.22	Regulation ( $\Delta V$ ) at 0.8 PF & Rated Current			4.49%
LV Line Current [A]	3608.44	Efficiency ( $\eta$ ) at 100% Load 1.0 PF			98.80%
Frequency [Hz]	50	Efficiency ( $\eta$ ) at 50% Load 1.0 PF			99.20%

## Mechanical Characteristics (dimensions are approx. and subject to change at the time of approval)

L - Length [mm]		Total Mass [kg]	
W - Width [mm]	1450	Tank Type	Corrugated Fin wall
H - Height [mm]		Paint Colour	RAL 7033

## Transformer Accessories

HV Porcelain Bushing with Arcing Horn  
LV Porcelain Bushing  
Off Circuit Tap Changer (OCTC)  
Earthing Terminals (SS)  
Lugs for lifting Complete Transformer  
Transport Pulling Eyes  
Silicagel Breather  
Oil Conservator  
Rating & Diagram Plate(SS)  
Bi-Direction Roller Wheels  
Oil Filling Plug (at Conservator)  
Oil Drain Valve with Oil sampling extension  
Oil Level Indicator (Conservator Mounted)  
Double Float Buchholz Relay  
Top Oil Temperature Indicator (with contacts)  
Pressure Safety Valve

## Remarks:

Routine test shall be conducted as per IEC 60076 at PEL Testing Lab.  
Tolerances applicable as per IEC 60076.

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