



## TECHNICAL DATA SHEET





**Kiosk Enclosure** 

\*images are of a similar transformer unit.





## 1. Technical Data

Rated power   RVA   2500   2500   Rated voltage   RV   0.415/11/22/33   0-1 kV   Frequency   Hz   50   50   50   50   50   50   50   5	Item 1 – Dry Type Transformer		HV Winding 1	LV Winding 1	
Frequency         Hz         50           Off circuit tapping links         %         ±2.5%, +-5%         Nil           Connection         Delta         Star           Vector group         Dyn11         Insulation level (Maximum BIL/AC)         kV         (145-20)/(3-70)         (145-20)/(3-70)         (145-20)/(3-70)           Winding material         Aluminium/Copper         Aluminium/Copper         Aluminium/Copper         Aluminium/Copper         Indication/Couldoor         Degree of winding         Oil Type         Oil Type         Oil Type         Standard         Indicor/Outdoor         Degree of protection         Indicor/Outdoor         Degree of protection         Indicor/Outdoor         Indicor/Outdoor         Degree of protection         Indicor/Outdoor	Rated power	kVA	2500	2500	
Off circuit tapping links         %         ±2.5%, +-5%         Nil           Connection         Delta         Star           Vector group         Dyn11           Insulation level (Maximum BIL/AC)         kV         (145-20)/(3-70)         (145-20)/(3-70)           Winding material         Aluminium/Copper         Aluminium/Copper         Aluminium/Copper           Type of winding         Oil Type         Oil Type         Oil Type           Standard         AS 60076-11, AS 2374         Installation         Indoor/Outdoor           Degree of protection         IP00-IP56         ONAN         Installation altitude         No NAN           Installation altitude         < 1000 a.m.s.l	Rated voltage	kV	0.415/11/22/33	0-1 kV	
Delta   Star	Frequency	Hz	<del> </del>		
Vector group   Naviation level (Maximum Bil/AC)   kV	Off circuit tapping links	%	±2.5%, +-5%	Nil	
Insulation level (Maximum BIL/AC)	Connection		Delta	Star	
Maximum BIL/AC    RV	Vector group		Dyn11		
Minding material   Aluminium/Copper   Aluminium/Copper	Insulation level	LA /	(145.20)/(2.70)	(1.45.20) /(2.70)	
Type of winding   Standard   AS 60076-11, AS 2374     Installation   Indoor/Outdoor     Degree of protection   IP00-IP56     Type of cooling   ONAN     Installation altitude   Climatic/environmental and fire behaviour class     Indicative values   Reference Temperature: 75°C     Standard tolerances per AS 60076 are applicable to the following values     No-load loss   W   2560     Load loss   W   21850     Impedance   %   4-6%     Efficiency @ 75degC   50% /75%/100%   99.03/99.21/99.36 (MEPS COMPLIANT)     @ cosφ = 1   Load     Efficiency @ 75degC   50% /75%/100%   98.79/99.02/99.20 (MEPS COMPLIANT)     @ cosφ = 0.8   Load     Insulation Class     Max.ambient   °C   45     Insulation temperature class   A     Insulation temperature class	(Maximum BIL/AC)	KV	(145-20) <b>/</b> (5-70)	(145-20) <b>/</b> (5-70)	
Standard   AS 60076-11, AS 2374     Installation   Indoor/Outdoor	Winding material		Aluminium/Copper	Aluminium/Copper	
Installation	Type of winding		Oil Type	Oil Type	
Degree of protection   IP00-IP56   Type of cooling   ONAN    Installation altitude   Climatic/environmental and fire behaviour class   E2-C2-F_ (0/1)	Standard		AS 60076-1	1, AS 2374	
Type of cooling	Installation		Indoor/Outdoor		
Installation altitude	Degree of protection		IP00-IP56		
Climatic/environmental and fire behaviour class   Reference Temperature: 75°C	Type of cooling		ONAN		
Indicative values         Reference Temperature: 75°C           Standard tolerances per AS 60076 are applicable to the following values           No-load loss         W         2560           Load loss         W         21850           Impedance         %         4-6%           Efficiency @ 75degC         50% /75%/100%         99.03/99.21/99.36 (MEPS COMPLIANT)           @ cosφ = 1         Load         Efficiency @ 75degC         50% /75%/100%         98.79/99.02/99.20 (MEPS COMPLIANT)           @ cosφ = 0.8         Load         45         Impedance         Imp	Installation altitude		< 1000 a.m.s.l		
Indicative values	Climatic/environmental		E2 C2 E	(0/1)	
Standard tolerances per AS 60076 are applicable to the following values         No-load loss         W         2560           Load loss         W         21850           Impedance         %         4-6%           Efficiency @ 75degC         50% /75%/100%         99.03/99.21/99.36 (MEPS COMPLIANT)           @ cosφ = 1         Load           Efficiency @ 75degC         50% /75%/100%         98.79/99.02/99.20 (MEPS COMPLIANT)           @ cosφ = 0.8         Load         Insulation Class           Max.ambient temperature         °C         45           temperature         HV winding         LV winding           Insulation temperature class         A         100           Temperature rise         °C         100           Overall dimensions and weights (Preliminary)         Width x Depth x         Nom           Height (IP00)         Mas (IP00)         Kg         5260           NOTE: losses dimensions and weights are indicative, to be confirmed following receipt of purchase order and completion of engineering stage.         Accessories           STANDARD (FOR EA TRANSFORMER)         UNITS           HV terminals         4         LV bushing	and fire behaviour class		EZ-CZ-F_ (U/1)		
No-load loss         W         2560           Load loss         W         21850           Impedance         %         4-6%           Efficiency @ 75degC         50% /75%/100%         99.03/99.21/99.36 (MEPS COMPLIANT)           @ cosφ = 1         Load           Efficiency @ 75degC         50% /75%/100%         98.79/99.02/99.20 (MEPS COMPLIANT)           @ cosφ = 0.8         Load           Insulation Class           Max.ambient temperature         °C         45           Insulation temperature class         A           Temperature rise         °C         100           Overall dimensions and weights (Preliminary)           Width x Depth x Height (IP00)         mm         2180 x 1900 x 2230           Mass (IP00)         Kg         5260           NOTE: losses dimensions and weights are indicative, to be confirmed following receipt of purchase order and completion of engineering stage.           Accessories         STANDARD (FOR EA TRANSFORMER)         UNITS           HV terminals         3         HV bushing           LV terminals         4         LV bushing	Indicative values Reference Temperature: 75			Temperature: 75°C	
Load loss         W         21850           Impedance         %         4-6%           Efficiency @ 75degC         50% /75%/100%         99.03/99.21/99.36 (MEPS COMPLIANT)           @ cosφ = 1         Load           Efficiency @ 75degC         50% /75%/100%         98.79/99.02/99.20 (MEPS COMPLIANT)           @ cosφ = 0.8         Load         ****  ***Temsulation Class**  Max. ambient temperature         ****Temperature         45           Insulation temperature class         *****Temperature rise         *****C         100           Overall dimensions and weights (Preliminary)           Width x Depth x Height (IP00)         mm         2180 x 1900 x 2230           Mass (IP00)         Kg         5260           NOTE: losses dimensions and weights are indicative, to be confirmed following receipt of purchase order and completion of engineering stage.         ****Text Day 100 x 2230           Accessories         *****Text DARD (FOR EA TRANSFORMER)         UNITS           HV terminals         3         HV bushing           LV terminals         4         LV bushing	Standard tolerances per AS 60076 are applicable to the following values				
Impedance         %         4-6%           Efficiency @ 75degC         50% /75%/100%         99.03/99.21/99.36 (MEPS COMPLIANT)           @ cosφ = 1         Load           Efficiency @ 75degC         50% /75%/100%         98.79/99.02/99.20 (MEPS COMPLIANT)           @ cosφ = 0.8         Load         Insulation Class           Max. ambient temperature         °C         45           Insulation temperature class         HV winding         LV winding           Temperature rise         °C         100           Overall dimensions and weights (Preliminary)           Width x Depth x Height (IP00)         mm         2180 x 1900 x 2230           Mass (IP00)         Kg         5260           NOTE: losses dimensions and weights are indicative, to be confirmed following receipt of purchase order and completion of engineering stage.         Accessories           STANDARD (FOR EA TRANSFORMER)         UNITS           HV terminals         3         HV bushing           LV terminals         4         LV bushing	No-load loss	W	2560		
Efficiency @ 75degC         50% /75%/100%         99.03/99.21/99.36 (MEPS COMPLIANT)           @ cosφ = 1         Load           Efficiency @ 75degC         50% /75%/100%         98.79/99.02/99.20 (MEPS COMPLIANT)           @ cosφ = 0.8         Load           Insulation Class           Max.ambient temperature         °C         45           Insulation temperature class         HV winding         LV winding           Temperature rise         °C         100           Overall dimensions and weights (Preliminary)           Width x Depth x Height (IP00)         mm         2180 x 1900 x 2230           Mass (IP00)         Kg         5260           NOTE: losses dimensions and weights are indicative, to be confirmed following receipt of purchase order and completion of engineering stage.         Accessories           STANDARD (FOR EA TRANSFORMER)         UNITS           HV terminals         3         HV bushing           LV terminals         4         LV bushing	Load loss	W	21850		
@ cosφ = 1         Load           Efficiency @ 75degC         50% /75%/100%         98.79/99.02/99.20 (MEPS COMPLIANT)           @ cosφ = 0.8         Load           Insulation Class           Max.ambient temperature         °C         45           Insulation temperature class         HV winding         LV winding           Temperature rise         °C         100           Overall dimensions and weights (Preliminary)           Width x Depth x Height (IP00)         mm         2180 x 1900 x 2230           Mass (IP00)         Kg         5260           NOTE: losses dimensions and weights are indicative, to be confirmed following receipt of purchase order and completion of engineering stage.         Accessories           STANDARD (FOR EA TRANSFORMER)         UNITS           HV terminals         3         HV bushing           LV terminals         4         LV bushing	Impedance	%	4-6%		
Efficiency @ 75degC @ cosp = 0.8 Load Barnal		50% /75%/100%	99.03/99.21/99.36 (MEPS COMPLIANT)		
Cosop = 0.8 Load   Max.ambient temperature °C 45   Insulation temperature class HV winding LV winding   Temperature rise °C 100   Overall dimensions and weights (Preliminary)   Width x Depth x Height (IP00) mm 2180 x 1900 x 2230   Mass (IP00) Kg 5260   NOTE: losses dimensions and weights are indicative, to be confirmed following receipt of purchase order and completion of engineering stage.   Accessories   STANDARD (FOR EA TRANSFORMER) UNITS   HV terminals 3 HV bushing   LV terminals 4 LV bushing	$ \cos \varphi = 1 $	Load			
Insulation Class       Max.ambient temperature       °C       45         Insulation temperature class       HV winding       LV winding         Temperature rise       °C       100         Overall dimensions and weights (Preliminary)         Width x Depth x Height (IP00)       mm       2180 x 1900 x 2230         Mass (IP00)       Kg       5260         NOTE: losses dimensions and weights are indicative, to be confirmed following receipt of purchase order and completion of engineering stage.         Accessories       STANDARD (FOR EA TRANSFORMER)       UNITS         HV terminals       3       HV bushing         LV terminals       4       LV bushing	Efficiency @ 75degC	50% /75%/100%	98.79/99.02/99.20 (MEPS COMPLIANT)		
Max.ambient temperature    Max.ambient temperature   Max.ambient temperature   Max.ambient temperature   Max.ambient   Max.ambient temperature   Max.ambient   Max.ambient	$@\cos\varphi = 0.8$	Load			
temperature    MV winding   LV winding	Insulation Class				
Insulation temperature class  Temperature rise  OC  Overall dimensions and weights (Preliminary)  Width x Depth x Height (IP00)  Mass (IP00)  Kg  STANDARD (FOR EA TRANSFORMER)  HV winding  LV winding  A  LV winding  LV winding  LV winding  LV winding  A  2180 x 1900  DOS  100  LV winding  A  2180 x 1900  DOS  2180 x 1900 x 2230  DOS  DOS  DOS  DOS  DOS  DOS  DOS  DO	Max.ambient	°C	45		
Insulation temperature class  Temperature rise  °C  100  Overall dimensions and weights (Preliminary)  Width x Depth x Height (IP00)  Mass (IP00)  Kg  5260  NOTE: losses dimensions and weights are indicative, to be confirmed following receipt of purchase order and completion of engineering stage.  Accessories  STANDARD (FOR EA TRANSFORMER)  HV terminals  3  HV bushing  LV terminals  4  LV bushing	temperature		<u>_</u>		
Class Temperature rise  °C  100  Overall dimensions and weights (Preliminary)  Width x Depth x Height (IP00)  Mass (IP00)  Kg  5260  NOTE: losses dimensions and weights are indicative, to be confirmed following receipt of purchase order and completion of engineering stage.  Accessories  STANDARD (FOR EA TRANSFORMER)  HV terminals  J  HV bushing  LV terminals  4  LV bushing			HV winding	LV winding	
Temperature rise  °C  100  Overall dimensions and weights (Preliminary)  Width x Depth x Height (IP00)  Mass (IP00)  Kg  5260  NOTE: losses dimensions and weights are indicative, to be confirmed following receipt of purchase order and completion of engineering stage.  Accessories  STANDARD (FOR EA TRANSFORMER)  HV terminals  1 HV bushing LV terminals  4 LV bushing	Insulation temperature		A		
Overall dimensions and weights (Preliminary)  Width x Depth x Height (IP00)  Mass (IP00)  Kg  5260  NOTE: losses dimensions and weights are indicative, to be confirmed following receipt of purchase order and completion of engineering stage.  Accessories  STANDARD (FOR EA TRANSFORMER)  HV terminals  UNITS  HV terminals  4  LV bushing  LV terminals			13		
Width x Depth x Height (IP00)  Mass (IP00)  Kg  Total State order and completion of engineering stage.  Accessories  STANDARD (FOR EA TRANSFORMER)  HV terminals  LV terminals  Width x Depth x In mm  2180 x 1900 x 2230  2180 x 1900 x 2230  State order and completion of engineering stage.  UNITS  HV bushing  LV bushing	Temperature rise	$^{\circ}\!\mathrm{C}$	100		
Width x Depth x Height (IP00)mm2180 x 1900 x 2230Mass (IP00)Kg5260NOTE: losses dimensions and weights are indicative, to be confirmed following receipt of purchase order and completion of engineering stage.AccessoriesSTANDARD (FOR EA TRANSFORMER)UNITSHV terminals3HV bushingLV terminals4LV bushing					
Height (IP00)  Mass (IP00)  Kg  5260  NOTE: losses dimensions and weights are indicative, to be confirmed following receipt of purchase order and completion of engineering stage.  Accessories  STANDARD (FOR EA TRANSFORMER)  HV terminals  UNITS  HV terminals  4  LV bushing				2000	
Mass (IP00)Kg5260NOTE: losses dimensions and weights are indicative, to be confirmed following receipt of purchase order and completion of engineering stage.AccessoriesSTANDARD (FOR EA TRANSFORMER)UNITSHV terminals3HV bushingLV terminals4LV bushing	_	mm	2180 x 1900 x 2230		
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purchase order and completion of engineering stage.  Accessories  STANDARD (FOR EA TRANSFORMER)  HV terminals  LV terminals  4  LV bushing					
Accessories STANDARD (FOR EA TRANSFORMER)  HV terminals  LV terminals  4  LV bushing  LV bushing					
STANDARD (FOR EA TRANSFORMER)UNITSHV terminals3HV bushingLV terminals4LV bushing					
HV terminals3HV bushingLV terminals4LV bushing		TRANSFORMER)	UNITS		
LV terminals 4 LV bushing				HV bushing	
C					
	Rating plate		1	Stainless Steel	





Radiator	Yes			
Oil Temperature Thermometer	Yes			
Pressure Relief Valve	Yes			
Oil Level Indicator	Yes			
Dain & Filling Valve, Earth Terminal	Yes			
Lifting Lugs	Yes			
Routine tests (Included)				
Winding resistance	Yes			
Ratio and phase relationship	Yes			
Impedance voltage, short circuit impedance	Yes			
and load loss				
No load loss	Yes			
Induced over voltage withstand	Yes			
Separate source voltage withstand	Yes			
Insulation resistance	Yes			
Type tests (Optional – additional cost)				
Temperature rise test	Yes			
Impulse test	Yes			
Noise pressure level test	Yes			

Drawings issued 1 week after the order.

Project timeline issued 2 weeks after order.

Inspection and Test Plan, Operation and Maintenance manuals submitted 4 weeks prior to delivery.