

	PRELIMINARY e4 AMORPHOUS TRANSFORMER DATA SHEET						
S.No.	Description	Units	Particulars				
1	Project Name		-				
2	Quote Number		-				
3	Manufacturer		Wilson Power Solutions Ltd				
4	Applicable Standard		IEC 60076				
5	General Arrangement Dwg		-				
6	Transformer Rating	kVA	800				
7	Rated High Voltage @ No Load	Volts	11000				
8	Rated Low Voltage @ No Load	Volts	415				
9	Minimum Insulation class HV LI	kV	75				
10	Minimum Insulation class HV AC	kV	28				
11	Minimum Insulation class LV LI	kV	- 10				
12	Minimum Insulation class LV AC	kV	3				
13	Line Current LV / HV	Α	1113 / 41.99				
14	Insulating Fluid		Mineral Oil				
15	Fans		No				
16	Pumps		No				
17	Type of Cooling		ONAN				
18	Number of Phases		3				
19	Frequency	Hz	50				
20	Vector Group		Dyn11				
	Impedance Voltage (Z)	%	4.75				
21	Subjected to +/- IEC tolerence limits	70	4.73				
		kA	22.60				
22	Symmetrical Short Circuit Current in LV	KA.	22.00				
	Symmetrical Short Circuit Current in HV Rated	kA	0.86				
23	Тар	KA	0.86				
24	Core Material		Amorphous				
25	No Load Losses	W	425				
26	Load Losses @ 75°C	W	4265				
			Exceeds Tier-2 Requirement				
27	Losses as per EU Regulation No. 548/2014		Exocous fier 2 nequirement				
28	Resistance	%	0.53				
29	Reactance	%	4.72				
		P. U.	0.0053				
30	Positive sequence resistance at principal tap	1.0.	0.0033				
			0.0472				
31	Positive sequence reactance at principal tap	P. U.	0.0472				
		P. U.	0.0447				
32	Positive sequence reactance at minimum tap	1	0.0117				
		P. U.	0.0497				
33	Positive sequence reactance at maximum tap						
24	Zoro soguenco resistanco	P. U.	0.0042				
34	Zero sequence resistance	+					
35	Zero sequence reactance	P. U.	0.0380				
36	Regulation type		DETC				
37	Tapping on HV	%	+7.5,+5.0, +2.5, 0.0, -2.5, -5				
38	Design Ambient Temperature	°C	40				
39	Temp Rise of Top Oil	°C	60				
40	Temp Rise of Winding	°C	65				
41	Altitude	m	<1000				
42	Pollution class		C4H				
43	HV Conductor Material		Aluminium				
44	LV Conductor Material		Aluminium				
45	Paint Finish Colour		Dark Admiralty Grey (BS 632 shade)				
46	Transformer Type		Free Breathing, bolted cover				
			Cable Box - 12kV, 3-Pole, (Facing-'E' BS:2562) with 1 take off per phase				
47	HV termination type		l nor nhaco				



			Cable hox - 1 1kV 4-Po	le, (Facing-'F', BS:2562) with 2 take off		
48	LV termination type		per phase & Neutral			
49	Neutral		Located inside - cable box			
		THD%	<5%			
50	Harmonis distortion	1110/6	\3%			
		Accesso	ories			
51	Drain Valve & Sampling Valve		Yes			
52	Radiator Valves		No			
53	Dehydrating Breather		Yes			
54	Pressure Relief Device		No			
55	Oil Temperature Indicator		No			
56	Buchholz unit		No			
57	Winding Temperature Indicator		No			
58	Magnetic Liquid Level Indicator			No		
59	Conservator			No		
60	HV CTs			No		
61 62	LV CTs Neutral CTs			No No		
63				No No		
	Disconnecting links HV Disconnecting links LV		<del>\                                    </del>	No		
64 65	Marshalling box			No No		
66	Bund			No No		
- 00	Bullu	0 "5:	. \	140		
		Overall Dim	ensions			
67	Length	mm	A land	2010		
68	Width	mm		1605		
69	Height	mm		1750		
70	Oil	L		1155		
71	Weight	kg		4380		
		Testing Requ	uirement			
72	Routine tests	1-1-3/		Yes		
73	Lighting Impulse			No		
74	Chopped impules		No			
75	Temperture rise test		No			
76	Noise test		No			
77	Dissolved gas analysis		No			
78	Frequancy response analysis		No			
79	CT checks		No			
80	Other information  Comments: All losses, dimensions & weights are provisional only subject to confirmation following detailed design. List of Routine Tests - Per IEC 60076-1:  1. Measurement of winding resistance (11.2)  2. Measurement of voltage ratio and check of phase displacement (11.3)  3. Measurement of short-circuit impedance and load loss (11.4)  4. Measurement of no-load loss and current (11.5)  5. Dielectric routine tests (IEC 60076-3)  6. Tests on on-load tap-changers, where appropriate (11.7)  7. Leak testing with pressure for liquid-immersed transformers (tightness test) (11.8)  8. Tightness tests and pressure tests for tanks for gas-filled transformers  9. Check of the ratio and polarity of built-in current transformers  10. Check of core and frame insulation for liquid immersed transformers with core or frame					
		cked & Approved By				
	Pavan Kiran Suresh V					