

Laboratory	Meter Testing Laboratory, TATA Power Delhi Distribution Limited, 4/13 Sub-Station Building, Sector-13, Rohini, New Delhi		
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Electrical Testing	Issue Date	19.05.2016
Certificate Number	T-2939	Valid Until	18.05.2018
Last Amended on	30.05.2016	Page	1 of 3

S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
I. MEASURING INSTRUMENTS- ELECTRICAL AND ELECTRONIC (STATIC) ENERGY METERS				
	A C Static Watthour Meters Class 1 & 2 & A C Watthour Meters Class 0.5, 1 and 2			
1.	Ac Static Watthour Meters (Class 1 & 2)	Limits of Error Due to Variation in Current	IS 13779: 1999 Upto Amd. 4 Clause. 11.1	63.5 V to 300 V (P-N) 10 mA to 120 A, 45 Hz to 65 Hz, Power Factor : (-)U.P.F to (+)U.P.F
2.	Ac Static Transformer Operated Watthour And Var-Hour Meters (Class 0.2S & 0.5S)	Limits of Error Due to Variation in Current	IS 14697: 1999 Upto Amd. 3 Clause. 11.1	63.5 V to 300 V (P-N) 10 mA to 120 A, 45 Hz to 65 Hz, Power Factor : (-)U.P.F to (+)U.P.F
3.	Ac Static Direct Connected Watthour Smart Meters (Class 1 & 2)	Limits of Error Due to Variation in Current	IS 16444: 2015 Clause. 6.12 IS 13779: 1999 Upto Amd. 4 Clause. 11.1	63.5 V to 300 V (P-N) 10 mA to 120 A, 45 Hz to 65 Hz, Power Factor : (-)U.P.F to (+)U.P.F
4.	Ac Static Watt- Hour Meters (Class 1 & 2)	Meter Constant	IS 13779: 1999 Upto Amd. 4 Clause. 11.6, 12.15	63.5 V to 300 V (P-N) 10 mA to 120 A, 45 Hz to 65 Hz, Power Factor : (-)U.P.F to (+)U.P.F
5.	Ac Static Transformer Operated Watthour And Var-Hour Meters (Class 0.2S & 0.5S)	Meter Constant	IS 14697: 1999 Upto Amd. 3 Clause. 11.6, 12.14	63.5 V to 300 V (P-N) 10 mA to 120 A, 45 Hz to 65 Hz, Power Factor : (-)U.P.F to (+)U.P.F

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6.	Ac Static Direct Connected Watthour Smart Meters (Class 1 & 2)	Meter Constant	IS 16444: 2015 Clause. 6.12 (IS 13779: 1999 Upto Amd. 4 Clause. 11.6, 12.15)	63.5 V to 300 V (P-N) 10 mA to 120 A, 45 Hz to 65 Hz, Power Factor : (-)U.P.F to (+)U.P.F
7.	Ac Static Watthour Meters (Class 1 & 2)	Starting Condition	IS 13779: 1999 Upto Amd. 4 Clause. 11.5, 12.14	63.5 V to 300 V (P-N) 10 mA to 120 A, 45 Hz to 65 Hz, Power Factor : (-)U.P.F to (+)U.P.F
8.	Ac Static Transformer Operated Watthour And Var-Hour Meters (Class 0.2s & 0.5s)	Starting Condition	IS 14697: 1999 Upto Amd. 3 Clause. 11.5, 12.13	63.5 V to 300 V (P-N) 10 mA to 120 A, 45 Hz to 65 Hz, Power Factor : (-)U.P.F to (+)U.P.F
9.	Ac Static Direct Connected Watthour Smart Meters (Class 1 & 2)	Starting Condition	IS 16444: 2015 Clause. 6.12 (IS 13779: 1999 Upto Amd. 4 Clause. 11.5, 12.14)	63.5 V to 300 V (P-N) 10 mA to 120 A, 45 Hz to 65 Hz, Power Factor : (-)U.P.F to (+)U.P.F
10.	Ac Static Watthour Meters (Class 1 & 2)	No Load Condition	IS 13779: 1999 Upto Amd. 4 Clause. 11.4, 12.13	63.5 V to 300 V (P-N) 10 mA to 120 A, 45 Hz to 65 Hz, Power Factor: (-)U.P.F to (+)U.P.F
11.	Ac Static Transformer Operated Watthour And Var-Hour Meters (Class 0.2s & 0.5s)	No Load Condition	IS 14697: 1999 Upto Amd. 3 Clause. 11.4, 12.12	63.5 V to 300 V (P-N) 10 mA to 120 A, 45 Hz to 65 Hz, Power Factor: (-)U.P.F to (+)U.P.F

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12.	Ac Static Direct Connected Watthour Smart Meters (Class 1 & 2)	No Load Condition	IS 16444: 2015 Clause. 6.12 (IS 13779: 1999 Upto Amd. 4 Clause. 11.4, 12.13)	63.5 V to 300 V (P-N) 10 mA to 120 A, 45 Hz to 65 Hz, Power Factor: (-)U.P.F to (+)U.P.F
13.	Ac Static Watthour Meters (Class 1 & 2)	Repeatability of Error	IS 13779: 1999 Upto Amd. 4 Clause. 11.7, 12.17	63.5 V to 300 V (P-N) 10 mA to 120 A 45 Hz to 65 Hz, Power Factor: (-)U.P.F to (+)U.P.F
14.	Ac Static Transformer Operated Watthour And Var-Hour Meters (Class 0.2s & 0.5s)	Repeatability of Error	IS 14697: 1999 Upto Amd. 3 Clause. 11.7, 12.16	63.5 V to 300 V (P-N) 10 mA to 120 A, 45 Hz to 65 Hz, Power Factor: (-)U.P.F to (+)U.P.F
15.	Ac Static Direct Connected Watthour Smart Meters (Class 1 & 2)	Repeatability of Error	IS 16444: 2015 Clause. 6.12 (IS 13779: 1999 Upto Amd. 4 Clause. 11.7, 12.17)	63.5 V to 300 V (P-N) 10 mA to 120 A, 45 Hz to 65 Hz, Power Factor: (-)U.P.F to (+)U.P.F

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