

Laboratory	TUV Rheinland (India) Pvt. Ltd., Plot No. 328, Udyog Vihar, Phase-IV, Gurgaon, Haryana		
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S. No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
I.	SAFETY TESTING FACILITY			
1.	Information Technology Equipment	Markings (IEC 60950: 2005 Clause. 1.7) Protection from Electric Shock and Energy Hazards (IEC 60950: 2005 Clause. 2.1) Power Interface (IEC 60950: 2005 Clause. 1.6) Thermal Requirement (IEC 60950: 2005 Clause. 4.5) Touch current (IEC 60950: 2005 Clause. 5.1) Electric strength (IEC 60950: 2005 Clause. 5.2) Humidity conditioning (IEC 60950: 2005 Clause. 2.9.2) Cord anchorage and strain relief Resistance of earth conductors. Creepage distances, clearances and distances	IEC 60950-1: 2001 EN 60950-1: 2001& Amd. 11: 2004 IS 13252: 2003 IEC 60950-1: 2005; Amd. 1: 2009; Amd. 2: 2013 EN 60950-1: 2006; Amd. 11: 2009; Amd. 1: 2010; Amd. 12: 2011; Amd. 2: 2013 IS 13252 (Part 1): 2010; Amd. 1: 2013 CAN/CSA-C22.2 No.60950-1-07+ Amd. 1: 2011+ Amd. 2: 2014 UL 60950-1 (2 nd Edition): 2011 (IEC 60950: 2005 Clause. 3.2.6) (IEC 60950: 2005 Clause. 2.6.3.4) (IEC 60950: 2005 Clause. 2.10)	Qualitative (Visual check) 2 N to 20 N .001 V to 300 V 50/60 Hz .0001 A to 20 A 0.0001 kW to 6 kW 20 °C to 300 °C 30 µA to 25 mA 0.01 kV to 5 kV AC 5 °C to 95 °C 10 % to 98 % RH 2 N to 500 N 0.2 Nm to 50 Nm 0.1 A to 60 A 0.001 Ω to 0.6 Ω 0.01 mm to 150 mm

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	Information Technology Equipment	Resistance to abnormal heat	(IEC 60950: 2005 Clause. 4.5.5)	21 °C to 125 °C 0.01 mm to 10 mm 2 N to 20 N
2.	Uninterruptible Power Systems (UPS)	Markings (IEC 62040-1: 2008 Clause. 4.7)	IEC 62040-1-1: 2002 EN 62040-1-1: 2003	Qualitative (Visual check)
		Power Interface (Clause. 4.6)	IEC 62040-1: 2008 +Amd. 1: 2013 EN 62040-1: 2008+Amd. 1: 2013	.001 V to 300 V 50/60 Hz .0001 A to 20 A 0.0001 kW to 6 kW
		Temperature Rise (Clause. 7.7)	IS 16242 (Part-1) : 2014	20 °C to 300 °C
		Earth leakage	(Clause. 8.1)	30 µA to 25 mA
		Electric strength	(Clause. 8.2)	0.01 kV to 5 kV AC
		Mechanical Strength	(Clause. 7.3)	2 N to 500 N 0.2 Nm to 50 Nm
		Protective earthing & bonding	(Clause. 5.3)	0.1 A to 60 A 0.001 Ω to 0.6 Ω
		Creepage distances, clearances and distances	(Clause. 3.16)	0.01 mm to 150 mm
		Ball pressure test Temperature Dia of ball	(Clause. 3.10)	21 °C to 125 °C .01 mm to 10 mm 2 N to 20 N

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3.	Audio, Video and Similar Electronic Apparatus - Safety Requirements	Markings (Clause. 5) Heating under Normal Operating Condition (Temperature rise) Determination of Hazardous Live Parts (Touch Current Test) Insulation Resistance & Dielectric Strength Humidity Treatment Provision for Protective Earthing Creepage Distances, Clearances and Distances	IEC 60065: 2001; Amd. 1: 2005; Amd. 2: 2010 IEC 60065: 2014 EN 60065: 2002; Amd. 1: 2006; Amd. 11: 2008; Amd. 2: 2010; Amd. 12: 2011 IS 616: 2010 + Amd. 2: 2014 (Clause. 7) (Clause. 9.1.1.1) (Clause. 10.3) (Clause. 10.2) (Clause. 15.2) (Clause. 13)	Qualitative (Visual check) 21 °C to 300 °C 30 µA to 25 mA 0.01 MΩ to 4000 MΩ, 0.01 kV to 5 kV 50/60 Hz 10 °C to 90 °C 45 % (-) 95 % RH 0.1 A to 40 A 0.001 Ω to 0.6 Ω 0.01 mm to 150 mm

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II.	IT EQUIPMENT			
1.	Personal Computer	Marking Test	IS 14896: 2001(Clause. 8.0)	Qualitative (Visual Check)
		Dry Heat Test	(Clause. 10.4.3)	21 °C to 180 °C
		Damp Heat Test	(Clause. 10.4.4)	21 °C to 55 °C with 95 % RH
		Cold Test	(Clause. 10.4.5)	21 °C to (-)40 °C
		Leakage Current Test	(Clause. 10.4.8)	30 µA to 25 mA
		Electric Strength Test	(Clause. 10.4.8)	0.01 kV to 5 kV AC/DC
2.	Printer	Marking Test	IS 14486: 2001	Qualitative (Visual Check)
		Dry Heat Test	(Clause. 4.8.1)	21 °C to 180 °C
		Damp Heat Test	(Clause. 4.8.1)	21 °C to 80 °C with 95 % RH
		Cold Test	(Clause. 4.8.1)	21 °C to (-)40 °C
		Leakage Current Test	(Clause. 4.5)	30 µA to 25 mA
		Electric Strength Test	(Clause. 4.5)	0.01 kV to 5 kV AC/DC

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III. DOMESTIC ELECTRONICS APPLIANCES				
1.	Colour Televisions	Power Efficiency Measurement Standby Mode / On Mode / Active Mode	IEC 62087: 2011 IEC 62301: 2011	0 to 600 V 50/60 Hz 0 to 20 A 0 to 1000 W
2.	Photovoltaic Systems Power Conditioners Procedure for Measuring Efficiency	Rated Output Efficiency	IEC 61683 Clause. 5.1	0.001 V to 300 V, 50/60 Hz , 6 kW (AC), 20 A 0.001 V to 400 V, 3 kW (DC) 0.0001 kW to 12 kW Pf 0.1 to 1
3.	Balance of System Components for Photovoltaic Systems design Qualification Natural Environmental	Marking Output voltage	EN 62093 Clause. 4 EN 62093 Clause. 7.2.2	Qualitative (Visual) 0.001 V to 100 V

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IV. EMC/EMI TEST FACILITY				
1.	Any Electrical / Electronic Product	Conducted Emission Test	CISPR 11: 2003+ Amd. 1: 2004+ Amd. 2: 2006 EN 55011: 2007 + Amd. 2: 2007 (Clause 5.1) CISPR 11: 2009 ; Amd. 1: 2010 EN 55011: 2009 ; Amd. 1: 2010	Current Limitation AC/DC: 16 A 9 kHz to 30 MHz
	Industrial, Scientific and Medical Equipment.			
	Sound and Television Broadcast Receivers and Associated Equipment.		CISPR 13: 2001+ Amd. 1: 2003+ Amd. 2: 2006 EN 55013: 2001+ Amd. 1: 2003+ Amd. 2: 2006 (Clause 4.1)	
	Household Appliances, Electric Tools and Similar Apparatus		CISPR 13: 2009 CISPR 13: 2013	
	Electrical Lighting and Similar Equipment.		CISPR 14-1: 2011 EN 55014-1: 2006+ Amd. 1: 2009+ Amd. 2: 2011 (Clause 4.1)	

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	Information Technology Equipment.		CISPR 15: 2009 EN 55015: 2006+ Amd. 1: 2007+ Amd. 2 : 2009 (Clause 4.3) EN 55015: 2013	
	Residential, Commercial and Light-Industrial Equipment		CISPR 22: 2008 EN 55022: 2006+ Amd. 1: 2007 EN 55022: 2010 (Clause 5.1) +AC: 2011	
	Industrial Equipment.		IEC 61000-6-3: 2011 EN 61000-6-3: 2007+ Amd. 1: 2011+ AC : 2012	
	Electro Medical Devices		IEC 61000-6-4: 2006+ Amd. 1: 2010 EN 61000-6-4: 2007+ Amd. 1: 2011	
	Switches for Household and Similar Fixed Electrical Installations.		IEC 60601-1-2: 2001+ Amd. 1: 2004 EN 60601-1-2: 2001+ Amd. 1: 2006 IEC 60601-1-2: 2007 EN 60601-1-2: 2007+AC: 2010 IEC 60601-1-2: 2014	
	Automatic Electrical Controls for Household		IEC 60669-2-1: 2009 EN 60669-2-1: 2004+ Amd. 12: 2010	

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	Uninterruptible Power Systems (UPS).		IEC 60730-1: 2013 EN 60730-1: 2011	
	Electrical Equipment for Measurement, Control and Laboratory Use.		IEC 62040-2: 2005+ AC: 2006 EN 62040-2: 2006 IS 16242 (Part 1): 2014	
	Telecommunication Network Equipment.		IEC 61326-1: 2005 EN 61326-1: 2006 IEC 61326-1: 2012 EN 61326-1: 2013 IEC 61326-2-6: 2012 EN 61326-2-6: 2013 EN 300386 V1.5.1 EN 300386 V1.6.1 EN 301 489-1 V 1.9.2 SD/EMI-02/03: 2009 IS 6873 (Part 2/Sec I): 2012 IS 6873 (Part 3): 2009 IS 6873 (Part 4): 1999 IS 6873 (Part 5): 2012 IS 6873 (Part 7): 2012 IS 14700 (Part 6/Sec III): 2002 IS 15040: 2010	

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2.	Household appliances, electric tools and similar apparatus.	Click test	CISPR 14-1: 2011 EN 55014-1: 2006+ Amd. 1: 2009+ Amd. 2: 2011 (Clause 4.2) IS 6873 (Part 2/Sec I): 2012	Current limitation AC: 16 A 150 kHz to 30 MHz
	Residential, Commercial and Light-Industrial Equipment		IEC 61000-6-3: 2011 EN 61000-6-3: 2007+ Amd. 1: 2011+ AC : 2012	
	Industrial Equipment		IEC 61000-6-4: 2006+ Amd. 1+2010 EN 61000-6-4: 2007+ Amd. 1: 2011	
	Automatic Electrical Controls for Household		IEC 60730-1: 2013 EN 60730-1: 2011	
3.	Household Appliances, Electric Tools and Similar Apparatus	Radiated RF Power (30 MHz to 300 MHz)	CISPR 14-1: 2011 EN 55014-1: 2006+ Amd. 1: 2009+ Amd. 2 : 2011 (Clause 6) IS 6873 (Part 2/Sec I): 2012	Absorbing Clamp method

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4.	Any Electrical / Electronic Product	Electrostatic Discharge Immunity Test	IEC 61000-4-2: 2008 EN 61000-4-2: 2009	(±)15 kV air (±)8 kV Contact
	Household Appliances, Electric Tools and Similar Apparatus		CISPR 14-2: 2008 EN 55014-2:1997; Amd. 1: 2001 ; Amd. 2: 2008	
	Residential, Commercial and Light-Industrial Equipment		IEC 61000-6-1: 2005 EN 61000-6-1: 2007	
	Industrial Equipment.		IEC 61000-6-2: 2005 EN 61000-6-2: 2005	
	Electro Medical Devices		IEC 60601-1-2: 2001+ Amd. 1: 2004 EN 60601-1-2: 2001+ Amd. 1: 2006	
	Information Technology Equipment.		IEC 60601-1-2 : 2007 EN 60601-1-2: 2007+AC: 2010 IEC 60601-1-2: 2014	
	Uninterruptible Power Systems (UPS).		CISPR 24: 2010 EN 55024:1998 ; Amd. 1: 2001; Amd. 2: 2003 EN 55024: 2010	
	Electrical Equipment for Measurement, Control and Laboratory Use		IEC 62040-2: 2005 EN 62040-2: 2006+AC: 2006 IS 16242 (Part 1): 2014	

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	Electrical Lighting and Similar Equipment.		IEC 61326-1: 2005 EN 61326-1: 2006 IEC 61326-1: 2012 EN 61326-1: 2013 IEC 61326-2-6: 2012 EN 61326-2-6: 2013	
	Switches for Household and Similar Fixed Electrical Installations.		IEC 61547: 2009 EN 61547: 2009 IEC 60669-2-1: 2009 EN 60669-2-1: 2004+ Amd. 12: 2010	
	Automatic Electrical Controls for Household		IEC 60730-1: 2013 EN 60730-1: 2011	
	Sound and Television Broadcast Receivers and Associated Equipment.		CISPR 20: 2006+ Amd. 1: 2013 EN 55020: 2007+ Amd. 11: 2011 IS 14700 (Part 4 /Sec II): 2008	
	Telecommuni-cation Network Equipment.		EN 300386 V1.5.1 EN 300386 V1.6.1 EN 301 489-1 V 1.9.2 SD/EMI-02/03: 2009	

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5.	Any Electrical / Electronic Product Household appliances, electric Tools and Similar Apparatus. Residential, Commercial and Light-Industrial Equipment Industrial Equipment. Electro medical Devices Information Technology Equipment. Uninterruptible Power Systems (UPS). Electrical Equipment for Measurement, Control and Laboratory Use.	Electrical Fast Transient (EFT) / Burst Immunity Test (Power Line & Signal Line)	IEC 61000-4-4: 2012 EN 61000-4-4: 2012 CISPR 14-2: 2008 EN 55014-2: 1997; Amd. 1: 2001; Amd. 2 : 2008 IEC 61000-6-1: 2005 EN 61000-6-1: 2007 IEC 61000-6-2: 2005 EN 61000-6-2: 2005 IEC 60601-1-2: 2001+ Amd. 1: 2004 EN 60601-1-2: 2001+ Amd. 1: 2006 IEC 60601-1-2: 2007 EN 60601-1-2: 2007+ AC: 2010 IEC 60601-1-2: 2014 CISPR 24: 2010 EN 55024: 1998 ; Amd. 1: 2001 ; Amd. 2: 2003 EN 55024: 2010 IEC 62040-2: 2005 EN 62040-2: 2006+AC : 2006 IS 16242 (Part 1): 2014	Range 16 A and Upto (±)4.0 kV

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	Telecommuni- cation Network Equipment.		IEC 61326-1-2005 EN 61326-1: 2006 IEC 61326-1-2012 EN 61326-1: 2013	
	Electrical Lighting and Similar Equipment.		IEC 61326-2-6: 2012 EN 61326-2-6: 2013 IS 14700 (Part 4/Sec IV): 2008 EN 300386 V1.5.1	
	Switches for Household and Similar Fixed Electrical Installations.		EN 300386 V1.6.1 EN 301 489-1 V 1.9.2 SD/EMI-02/03: 2009 IEC 61547: 2009 EN 61547: 2009	
	Automatic Electrical Controls for Household		IEC 60669-2-1: 2009 EN 60669-2-1: 2004+ Amd. 12: 2010 IEC 60730-1: 2013 EN 60730-1: 2011	
	Sound and Television Broadcast Receivers and Associated Equipment.		CISPR 20: 2006+ Amd. 1: 2013 EN 55020: 2007+ Amd. 11: 2011	

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6.	Any Electrical / Electronic Product	High Energy / Telecom Surge Immunity Test	IEC 61000-4-5: 2014 EN 61000-4-5: 2006	Range 16 A and Upto (±)4.0 kV
	Household Appliances, Electric Tools and Similar Apparatus		CISPR 14-2: 2008 EN 55014-2:1997 ; Amd. 1: 2001; Amd. 2: 2008	
	Residential, commercial and light-industrial Equipment		IEC 61000-6-1: 2005 EN 61000-6-1: 2007	
	Industrial Equipment.		IEC 61000-6-2: 2005 EN 61000-6-2: 2005	
	Electro Medical Devices		IEC 60601-1-2: 2001+ Amd. 1: 2004 EN 60601-1-2: 2001+ Amd. 1: 2006	
	Information Technology Equipment.		IEC 60601-1-2: 2007 EN 60601-1-2: 2007+ AC: 2010	
	Uninterruptible Power Systems (UPS).		IEC 60601-1-2 : 2014	
	Electrical Equipment for Measurement, Control and Laboratory use.		CISPR 24: 2010 EN 55024:1998 ; Amd. 1: 2001 ; Amd. 2: 2003 EN 55024 : 2010	

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	Telecommuni- cation Network Equipment.		IEC 62040-2 : 2005 EN 62040-2: 2006+AC : 2006 IS 16242 (Part 1): 2014	
	Electrical Lighting and Similar Equipment.		IEC 61326-1-2005 EN 61326-1: 2006 IEC 61326-1-2012 EN 61326-1: 2013 IEC 61326-2-6 : 2012 EN 61326-2-6 : 2013	
	Switches for Household and Similar Fixed Electrical Installations. Automatic Electrical Controls for household		IS 14700 (Part 4/Sec V): 2008 EN 300386 V1.5.1 EN 300386 V1.6.1 EN 301 489-1 V 1.9.2 SD/EMI-02/03 : 2009 IEC 61547: 2009 EN 61547: 2009	
	Sound and Television Broadcast Receivers and Associated Equipment.		IEC 60669-2-1: 2009 EN 60669-2-1: 2004+ Amd. 12: 2010 IEC 60730-1 : 2013 EN 60730-1 : 2011 CISPR 20: 2006+ Amd. 1: 2013 EN 55020: 2007+ Amd. 11: 2011	

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7.	Any Electrical / Electronic Product Residential, Commercial and Light-Industrial Equipment Industrial Equipment. Electro Medical Devices Information Technology Equipment. Uninterruptible Power Systems (UPS). Electrical Equipment for Measurement, Control and Laboratory use.	Magnetic Field Immunity Test	IEC 61000-4-8: 2009 EN 610004-8: 2010 IEC 61000-6-1: 2005 EN 61000-6-1: 2007 IEC 61000-6-2: 2005 EN 61000-6-2: 2005 IEC 60601-1-2: 2001+ Amd. 1: 2004 EN 60601-1-2: 2001+ Amd. 1: 2006 IEC 60601-1-2: 2007 EN 60601-1-2: 2007+ AC: 2010 IEC 60601-1-2: 2014 CISPR 24: 2010 EN 55024: 1998 ; Amd. 1: 2001; Amd. 2: 2003 EN 55024: 2010 IEC 62040-2: 2005 EN 62040-2: 2006+AC: 2006 IS 16242 (Part 1): 2014 IEC 61326-1: 2005 EN 61326-1: 2006 IEC 61326-1: 2012 EN 61326-1: 2013 IEC 61326-2-6: 2012 EN 61326-2-6: 2013	30 A/m

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	Electrical Lighting and Similar Equipment.		IEC 61547 : 2009 EN 61547 : 2009	
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	Automatic Electrical Controls for Household		IEC 60730-1: 2013 EN 60730-1: 2011	
			IS 14700(Part 4/Sec VIII): 2008	
8.	Any Electrical / Electronic Product	Voltage dips, short interruption & voltage variations Immunity Test	IEC 61000-4-11: 2004 EN 61000-4-11: 2004	Current limitation of 16 A
	Household Appliances, Electric Tools and Similar Apparatus.		CISPR 14-2: 2008 EN 55014-2:1997 ;Amd. 1: 2001 ; A2 : 2008	0 to 100 % voltage dips
	Residential, Commercial and Light-Industrial Equipment		IEC 61000-6-1: 2005 EN 61000-6-1: 2007	0 to 10 s time
	Industrial Equipment.		IEC 61000-6-2: 2005 EN 61000-6-2: 2005	
	Electro Medical Devices		IEC 60601-1-2: 2001+ Amd. 1: 2004 EN 60601-1-2: 2001+ Amd. 1: 2006	

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	Information Technology Equipment.		IEC 60601-1-2: 2007 EN 60601-1-2: 2007+ AC: 2010 IEC 60601-1-2: 2014	
	Uninterruptible Power Systems (UPS).		CISPR 24: 2010 EN 55024:1998 ; Amd. 1: 2001 ; Amd. 2: 2003 EN 55024 : 2010	
	Electrical Equipment for Measurement, Control and Laboratory use.		IEC 62040-2 : 2005 EN 62040-2: 2006+AC : 2006	
	Telecommunication Network Equipment.		IEC 61326-1: 2005 EN 61326-1: 2006 IEC 61326-1: 2012 EN 61326-1: 2013 IEC 61326-2-6: 2012 EN 61326-2-6: 2013	
	Electrical Lighting and Similar Equipment.		EN 300386 V1.5.1 EN 300386 V1.6.1 EN 301 489-1 V 1.9.2 SD/EMI-02/03: 2009	
	Switches for Household and Similar Fixed Electrical Installations.		IEC 61547: 2009 EN 61547: 2009	

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	Sound and Television Broadcast Receivers and Associated Equipment.		IEC 60730-1: 2013 EN 60730-1: 2011	
			CISPR 20: 2006 EN 55020: 2007+ Amd. 11: 2011	
9.	Lamps / Luminaire	EMF Test	IEC 62493: 2009 EN 62493: 2010	20 kHz to 10 MHz 0 to 1.0 Current Density

-X-X-X-X-X-X-X-X-X-X-X-X-X-