

Laboratory **Electronics Regional Test Laboratory (South), Sreekariyam P. O.,
Akkulam, Thiruvananthapuram, Kerala**

Accreditation Standard **ISO/IEC 17025: 2005**

Certificate Number **TC-8072**

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Validity **03.11.2018 to 02.11.2020**

Last Amended on --

| Sl. | Product / Material of Test | Specific Test Performed | Test Method Specification against which tests are performed | Range of Testing / Limits of Detection |
|-----|----------------------------|-------------------------|---|--|
|-----|----------------------------|-------------------------|---|--|

ELECTRONICS TESTING

| I. | MEDICAL ELECTRICAL EQUIPMENT | | | |
|-----|--|--|--|---|
| 1. | Medical Electrical Equipment- Power supplies | Durability of markings | IEC 60601-1:Ed 3.1: 2012-8 Cl. No. 7.1.3 | Qualitative |
| | | Power Input | IEC 60601-1:Ed 3.1: 2012-8 Cl. No. 4.11 | 0.1 W to 2100 W Up to 300 V _{ac} Up to 9 A @ 50 Hz |
| | | Impedance & Current Carrying capability | IEC 60601-1:Ed 3.1: 2012-8 Cl. No. 8.6.4 | Up to 200 mΩ |
| | | Leakage Current and Patient Auxiliary Currents | IEC 60601-1:Ed 3.1: 2012-8 Cl. No. 8.7 | 10 μA _{ac} to 100 mA _{ac} |
| | | Dielectric Strength | IEC 60601-1:Ed 3.1: 2012-8 Cl. No. 8.8.3 | 0.5 kV to 5 kV 1 s to 180 s |
| | | Mechanical Strength and Resistance to Heat | IEC 60601-1:Ed 3.1: 2012-8 Cl. No. 8.8.4.1 | 75 °C to 125 °C Upto 5mm |
| | | Excessive Temperatures | IEC 60601-1:Ed 3.1: 2012-8 Cl. No. 11.1 | 25 °C to 125 °C |
| | | Creepage Distance and Air Clearances | IEC 60601-1:Ed 3.1: 2012-8 Cl. No. 8.9 | 0.05 mm to 150 mm |
| | | Preconditioning treatment. - Humidity - Dry heat | IEC 60601-1:Ed 3.1: 2012-8 Cl. No. 5.7 | Up to 25 °C 90 % to 96 % RH |
| | | Dry heat | | Ambient to 125 °C |
| II. | ELECTRONIC COMPONENTS & EQUIPMENT SUBASSEMBLIES | | | |
| 1. | Electronic Components | Visual Examination | JSS 50401:1994 JSS 50402:1994 JSS 50403:1994 | Qualitative 10x magnification |
| | | DC Resistance | MIL-STD-202G Method 303 | 1 Ω to 9.99 kΩ 10 kΩ to 1 MΩ |