National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name : CSIR-CENTRAL ELECTRONICS ENGINEERING RESEARCH INSTITUTE, JAIPUR CAMPUS, CFC-1, MALVIYA INDUSTRIAL AREA, JAIPUR, RAJASTHAN, INDIA

Accreditation Standard ISO/IEC 17025:2017

Certificate Number TC-14146 **Page No** 1 of 3

Validity 22/07/2024 to 21/07/2026 **Last Amended on** -

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
Permanent Testing				
1	ELECTRONICS-MISCELLANEOUS PRODUCTS	Utility Interconnected Photovoltaic Converter	Sound Measurement test	IEC 62109-2 CL 10.2.1
2	ELECTRONICS-MISCELLANEOUS PRODUCTS	Utility Interconnected Photovoltaic Converter	Static Conversion Efficiency	EN 50530 CL. 4.5
3	ELECTRONICS-MISCELLANEOUS PRODUCTS	Utility Interconnected Photovoltaic Converter	Touch Current test	IEC 62109 CL7.3.6.3.7
4	ELECTRONICS-MISCELLANEOUS PRODUCTS	Utility Interconnected Photovoltaic Converters	Energy Efficiency	IS/IEC 61683 CL. 5.3
5	ELECTRONICS-MISCELLANEOUS PRODUCTS	Utility Interconnected Photovoltaic Converters	Partial Output Efficiency	IS/IEC 61683 CL.5.2
6	ELECTRONICS-MISCELLANEOUS PRODUCTS	Utility Interconnected Photovoltaic Converters	Rated Output Efficiency	IS/IEC 61683 CL.5.1
7	ELECTRONICS-MISCELLANEOUS PRODUCTS	Utility Interconnected Photovoltaic Equipment	Current Rating	IEC 61727 CL.4.1
8	ELECTRONICS-MISCELLANEOUS PRODUCTS	Utility Interconnected Photovoltaic Equipment	DC Current Injection	IEC 61727 CL.4.4
9	ELECTRONICS-MISCELLANEOUS PRODUCTS	Utility Interconnected Photovoltaic Equipment	Dynamic MPPT Test	EN50530 CL.4.4
10	ELECTRONICS-MISCELLANEOUS PRODUCTS	Utility Interconnected Photovoltaic Equipment	Frequency	IEC 61727 CL.4.1
11	ELECTRONICS-MISCELLANEOUS PRODUCTS	Utility Interconnected Photovoltaic Equipment	Harmonics/Total Harmonic Distortion	IEC 61727 CL.4.6

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12	ELECTRONICS-MISCELLANEOUS PRODUCTS	Utility Interconnected Photovoltaic Equipment	No Load Test	IS/IEC 61683 CL. 7.1
13	ELECTRONICS-MISCELLANEOUS PRODUCTS	Utility Interconnected Photovoltaic Equipment	Overall Efficiency	EN50530 CL. 5.0
14	ELECTRONICS-MISCELLANEOUS PRODUCTS	Utility Interconnected Photovoltaic Equipment	Power Factor at 50% Load	IEC 61727 CL.4.7
15	ELECTRONICS-MISCELLANEOUS PRODUCTS	Utility Interconnected Photovoltaic Equipment	Reconnection Time after Utility Recovery	IEC 61727 CL.5.4
16	ELECTRONICS-MISCELLANEOUS PRODUCTS	Utility Interconnected Photovoltaic Equipment	Standby Loss	IS/IEC 61683 CL.7.2
17	ELECTRONICS-MISCELLANEOUS PRODUCTS	Utility Interconnected Photovoltaic Equipment	Static MPPT Test	EN50530 CL.4.3
18	ELECTRONICS-MISCELLANEOUS PRODUCTS	Utility Interconnected Photovoltaic Equipment	Tripping Time during over/under voltage	IEC 61727 CL.5.2.1
19	ELECTRONICS-MISCELLANEOUS PRODUCTS	Utility Interconnected Photovoltaic Equipment	Tripping Time under Over Frequency/Under Frequency	IEC 61727 CL.5.2.2
20	ELECTRONICS-MISCELLANEOUS PRODUCTS	Utility Interconnected Photovoltaic Equipment	Utility Interconnected Photovoltaic Inverters-Test Procedure of Islanding Prevention Measures	IS 16169
21	ELECTRONICS-MISCELLANEOUS PRODUCTS	Utility Interconnected Photovoltaic Equipment	Utility-interconnected photovoltaic inverters - Test procedure of islanding prevention measures	IEC 62116

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22	ELECTRONICS-MISCELLANEOUS PRODUCTS	Utility Interconnected Photovoltaic Equipment	Voltage Rating	IEC 61727 CL.4.1
23	ELECTRONICS-MISCELLANEOUS PRODUCTS	Utility Interconnected Photovoltaic Equipment	Weighted Efficiencies	EN50530 CL4.5.3