

INTELLIGENT SMB/SCB TEST LABORATORY (ISMBTL)

A Systematic way to increase the efficiency, productivity of the testing of String Monitoring Box (SMB) / String Combiner Box (SCB)

ISMBTL is a fully integrated test suite for testing of SMB & SCB. The suite consists of

- Test bench,
- SMB Test Pro software
- Programmable DC Variable Power Source
- RTD PT 100 sensor
- Barcode Printer
- Excitation Transformer
- UPS
- Multiplexer
- Power Contractors
- Galvanic Isolators
- Shunt Resistors
- Test Bed with flexible fitting

This **"SMB Test Bro"** software based Monitoring & Control and Reporting Laboratory is used for SMB / SCB Testing. The system acquires various parameters from Monitoring Board, Controller & Current Source on real time basis for preparation of Test Report.

Following Tests covered by ISMBTL

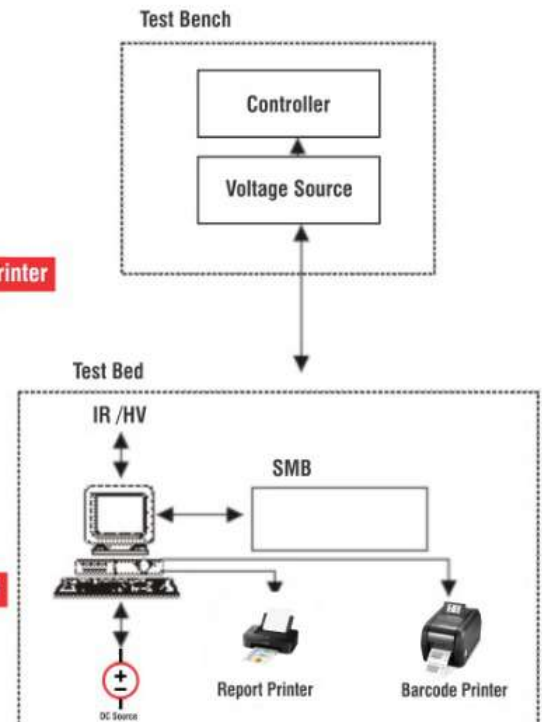
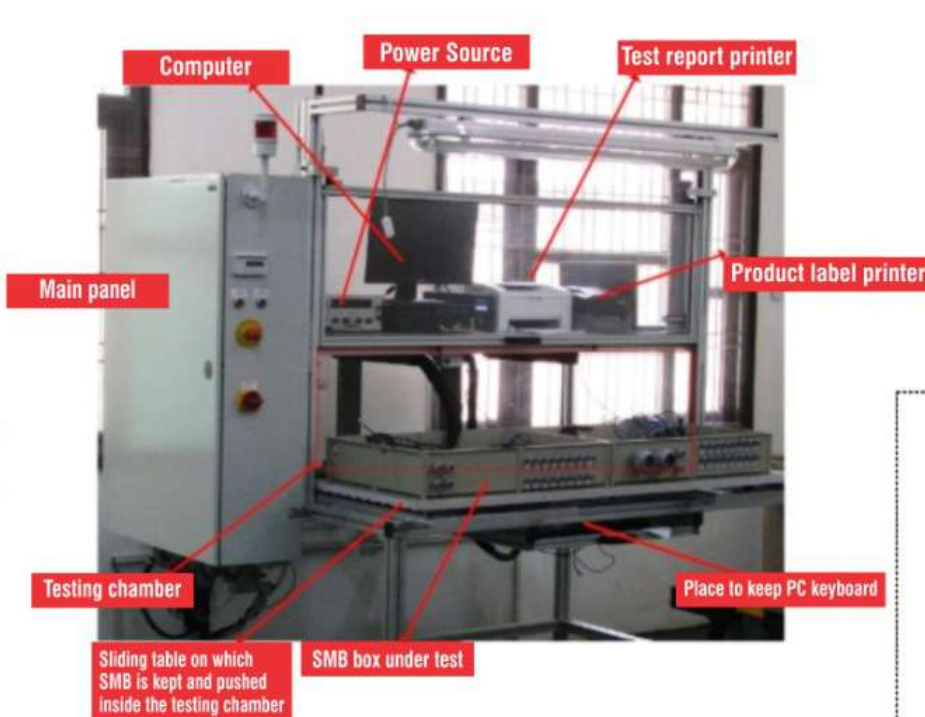
- Open Circuit Test (Voltage Test)
- Short Circuit Test (Current Test)
- Temperature Rise Test
- High Volt Test
- Insulation Resistance Test

Salient Features

- Test Lab suitable for up to 32 string inputs from solar PV modules
- Test lab suitable for injecting current in multiple strings at a time.
- Acquires data online from Monitoring board (for SMB) / Shunt Resistor (for SCB) & Current Source
- Barcode Label printing automatically, if the test results are ok.

Benefits of ISMBTL

- Increases testing productivity significantly by reducing test preparation time, testing process time and report generation time
- Allows user to easily store and retrieve data with simple but intuitive graphical user interface.
- The software capable of data manipulation and analysis based on user set points.
- Test Report printing automatically.



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