

# VASAVI

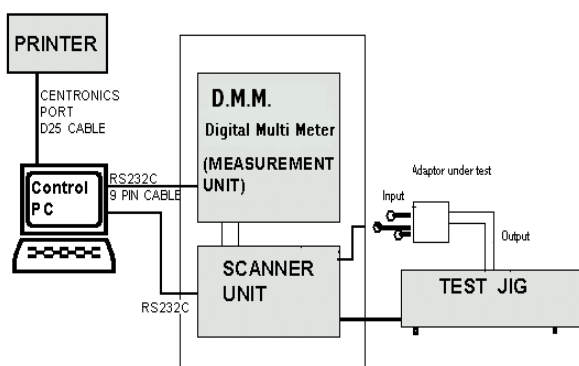
## Automatic SMPS/ADAPTER TEST SYSTEM VCAT-S4



AUTOMATIC TEST EQUIPMENT (ATE) FOR ADAPTERS

Fast and easy testing of SMPS/Adaptors. Most ideal for mobile charges, battery charges, SMPS etc. Scans at one stock all the parameter of each and every output as per pre-defined program of the test procedure. Any semiskilled and unskilled person can be engaged in actual test. The person testing neednot have any knowledge of the parameters being tester, he ultimately has to see PASS/FAIL. In the software you can select the parameter to be tested , can select the channel under test ,can select the input voltages and also can select whether the test is to be done in loaded condition or without Load. The load is the programmable DC load you can enter any value <1Amp DC. The test parameters include Vdc, Vac , Idc, Iac, Programmable DC Load, Selectable INPUT voltage 100Vdc, 230Vac, 300Vac.

### UNIT BLOCK DIAGRAM AND CONNECTIONS



### PC Control Software

The instrument is controlled through external PC through RS232C port. The system stores the test results to database tables. The system software works on Windows platform.

### View & Print Test Results (Database)

All the test results will be transferred to a database files with connected file name. The database table is compatible to fox-pro table. You can import these files to other softwares like excel for creating graphs and other analysis.

# VASAVI ELECTRONICS

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# Specifications

**Programmable output channel selection. Test any of following parameters and test conditions. .**

**INPUT VOLTAGE:** 100VAC, 230VAC, 300VAC  $\pm 3\%$

(Can be customized to any voltages but max 3 I/P's).

**OUTPUT CHANNELS:** Max 4channels with common Ground.

**INTERNAL DC LOAD:** any programmable from 50mAmps to 1000mAmps Resolution: 1mAmps Accuracy: $\pm 1\%$

Test Parameter	Range	Accuracy
VOLTAGE DC (Vdc)	10mVdc to 50Vdc	$\pm 0.1\%$
VOLTAGE AC (Vac true RMS)	10mVac - 50Vac.	20 - 50Hz $\pm 1\%$ , 50 - 20KHz $\pm 0.8\%$ at highest range 20KHz - 50KHz $\pm 1.5\%$ at highest range 50KHz - 100KHz $\pm 3\%$ at highest range.
CURRENT DC (Idc)	2mAmps - 1000mAmp	$\pm 0.2\%$ at highest range.
CURRENT AC (Iac)	2mAmps - 1000mAmps	$\pm 0.2\%$ at highest range.
SHORT CIRCUIT	Time delay in Seconds Shorting the selected OUTPUTS	

Power Requirements: 230V+10% 50HZ AC Mains

## Composite Testing window

S.L	TestName	MeasVal	Load Cu	LowLimit	HighLimit
1	VCH1FL230V	13.771	0.580	13.7	14.6
2	VCH2FL230V	13.771	0.580	13.77	14.62
3	VCH1NL	14.813		13.49	14.91
4	VCH2NL	14.777		13.49	14.91
5	VCH1HL	14.239	0.300	13.49	14.91
6	VCH2HL	14.236	0.300	13.49	14.91
7	VCH1FL	13.772	0.580	13.49	14.91
8	VCH2FL	13.772	0.580	13.49	14.91
9	Short	5.0	0.580	13.49	14.91
10	CurLmt	0.853	0.700	0.0	5.0

S.L.No  
**PASSED : 1**

Test Result  
**PASS**

Start Test    Change Results Font

End Test    Print This Result

DataBase Not selected  
Report Not selected

**TEST IN PROGRESS**

**Password Requirement:** The control software expects two levels of users.

**Level-1 user - Person with Password:** A person who understands the Adaptor/SMPS, its design, drawings, specifications. This person will be provided with the password and will be able to access all menu items.

**Level-2 user - Person without Password:** This persons can select the test file, test the components and take reports.

**Testing Speed: Less** than 0.75 seconds per each test. If there are 4 tests in a transformer it takes about 3 seconds or less after inserting the transformer into the test jig.

## Creating New Test Data

**VdcCH1NL**

TestName: VdcCH1NL    Input Volt: 230 Vac    Function: Vdc (O/P)    Measure: CH.1 FCT1

Output Load: CH.1 FCT, CH.2 BAT    Short Terminals: CH.1 FCT, CH.2 BAT

Value: 45 Volts/Amps    Lower Limit: 9.0    Upper Limit: 11.0    Load Curr. Amps: 0.3

Can Enter Limits in %

Pause

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