



Switching Power Supply Automatic Test System (ATS)

AN80 Series Switching Power Supply ATS, adopting open software framework, is applicable for automatic tests of all kinds of power supplies. Providing numerous varying hardware choices, it can test switching power supply, charger, adapter, module power supply, PC power supply, LCD Inverters/ LIPS, UPS and so on.

Product Classification:

- LCD inverter/LIPS ATS- AN8062A(F)
- Adapter/ Charger ATS- AN8061(F)
- PDP ATS- AN8062B(F)
- Module Power Supply ATS- AN8065(F)

Main Features:

- Open System Framework: supporting various communications, suitable for expanding; specially equipped with programming function, easy to carry out second development and modification
- Standard Test Items: providing standard ready test items specific to charger, adapter, LCD Inverter and so on; with the highest test efficiency
- High-speed & parallel test: able to parallel 2~6 groups of products to be tested and support double station; efficiency increased by 2~3 times than others
- Customized Software Report: with powerful report statistics function; also able to customize according to customers' requirements about reporting and analyzing functions
- Professional Test Fixture: integrated several test functions, modular design, humanistic operation and shortcut maintenance

Test Items

Output Performances

- DC output voltage
- DC output current
- Peak-Peak noise
- RMS noise
- Efficiency
- Hold-on adjustment
- Power good signal
- Power fail signal
- P/S ON signal

Regulation Tests

- Current regulation
- Voltage regulation
- Combine regulation

Timing Tests

- Power up sequence
- Power off sequence
- Transient peak value
- Turn-on time
- Rise time
- Fall time
- Hold-up time

Input Characteristics

- Input inrush current
- Input RMS current
- Input peak current
- Input power
- Input current harmonics against regulations
- Input power factor
- Vin ramp test
- Fin ramp test
- AC cycle drop out
- PLD simulation

Protection Tests

- Short circuit test
- OV protection
- UV protection
- OL protection
- OP protection

System Control Unit

Parameter	Model No.	PC/IPC
CPU		Pentium III or faster
SRAM		256KB
DRAM		512MB or higher
Hard drive		8GB or higher
CD-ROM		40X or faster
Monitor		17"
Keyboard		101 keys
I/O		Mouse/Printport
System interface		GPB/RS-232
System I/O		DIO Card
GPB board		NI-PCI GPB Card

Measurement Analysis Unit

Parameter	Model No.	AN80020(F)	AN80030(F)	AN80040(F)
Chanel Num		1~6	1~8	2~16
Power Measurement		0.1mW~12000W		
Current Measurement		20mA/200mA/2A/20A		
Voltage Measurement		60V/300V/600V	400mV/2000mV	100mV/1000mV
Frequency Range		DC/10~1000Hz		1kHz ~ 100kHz
Ripple Range			10mV ~ 2000mV	
Timing Range			1ms ~ 596hours	
Comm Interface		RS-232	RS-232	RS-232

DC Eletronic Load

Parameter	Model No.	AN2320 Series	AN2310 Series	AN2316 Series
Load Mode		CC/CR/CV/CP	CC/CR/CV/CP	CC/CR/CV/CP
Power Range		100W	300W/600W	300W/600W
Voltage Range		1~80V	1~80V	1~500V
Current Range		≤20A	≤120A	≤20A
Current Ripple Slope Rate		≤0.8A/us	≤2.5A/us	≤0.8A/us
Measurement Function		Voltage/Current/Power	Voltage/Current/Power	Voltage/Current/Power
V-sence Interface		√	√	√
I-monitor Interface		√	√	√
Chanel Num		2	1	1

DC Power Source

Parameter	Model No.	AN51 Series	AN52 Series
Power Range		1200W/2400W	1.75kW~35kW
Voltage Range		0~15V/21V/35V/60V/120V/350V	0~35V/60V/330V
Current Range		≤160A	≤1000A
Basic Precision		0.04%	1%
Ripple Noise		2~15mV	200mV
Programmable Function		√	
Remote Control Function		√	
Online Function		√	

AC Power Source

Parameter	Model No.	AN61500 (F)	AN61600 (F)
Power Range		500~2000VA	500~2000VA
Voltage Range		0~300V	0~300V
DC Output		√	√
Measurement Function		√	√
Harmonic Measurement		√	
Harmonic Synthesis		√	
Waveform Simulation		√	
Resistance Program		√	