

USER'S MANUAL

Single output DC Bench Power Supplies with Large LCD

APS-1503/1602/1721



General Description:

Your new DC Regulated Power Source provides accurate&stable DC power. It is ideal for test benches, laboratories, schools & repair facilities. The multi-turn voltage control knob helps the user accurately dial in a precise voltage. It is easy to read digital outputs (voltage & current) through a large LCD displays. It incorporates SMT PC boards & a cooling fan for reliable performance.

Features:

*SMD adhesive sheet element technology for internal PCB construction *Attractive yellow large liquid crystal display shows voltage & current *A cooling fan *Multiloop high precision voltage regulation *Progressive current regulation *Dual terminal system. Safety test style or expandable screw terminals *Overload protection circuit *Low ripple voltage: <1mVp-p *Output polarity: positive or negative

*Rugged reinforced metal frame construction

Specifications:

	Voltage	Current	Disp	olay
APS-1503	0-50VDC	0-3A	100mV	10mA
APS-1602	0-60VDC	0-2A	100mV	10mA
APS-1721	0-120VDC	0-1A	100mV	1mA

Source effect: $5 \times 10^{-4} = 2mV$ Load effect: $5 \times 10^{-4} = 2mV$ Ripple coefficient: <250uVStepped current: $30mA \pm 1mA$

1. General Description:

Utilizes SMD technology Single/Dual Output Light and Compact Output Polarity: Positive and Negative LCD Display shows Voltage and Current value Low Ripple Voltage Less Than 1mVp-p Overload Protection Circuit Applicable for School, Production Line, Laboratory and Maintenance

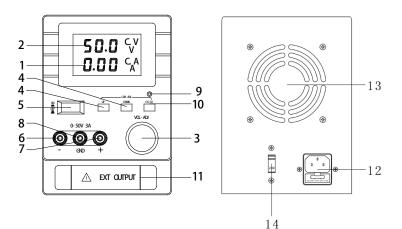
Specifications:

Input Voltage	110V/220V AC	50Hz/60Hz	
Voltage Regulation	$CV \leq 5 \times 10^{-5} mV$		
Load Regulation	$CV \leq 5 \times 10^{-5} mV$		
Ripple & Noise	CV<0.5mVr.m.s	CC <2mAr.m.s	
Protection	current Limiting		
Voltage Indication Accuracy		$LCD \pm 1\% + 2Digits$	
Current Indication Accuracy		LCD $\pm 2\%$ +2Digits	
Ambient Temperature		$0 \sim +40^{\circ}C$	
Humidity	<90%		
Dimensions(Single)	180(w)×130(H)×300(D)		
Weight	6.8kg		
Accessory	nstruction Manual, Power cord, Test Lead		

2. Operation

2.1 Front Panel Controls.

- (1) Current Indication
- (2) Voltage Indication
- (3) Fine (10 Turns) adjustment of Voltage
- (4) Up/Down Adjustment of Current
- (5) Power On/Off
- (6) Negative Output Terminal
- (7) Positive Output Terminal
- (8) Ground Connection
- (9) Constant Current Indicator
- (10) Constant Current Switch
- (11) External Power Output Connection
- (12) Grounding Power cable
- (13) Cooling fan
- (14) Transfer switch



The unit has one output display. The display has two figures. One is Voltage and the other is current. The Voltage is 0-50 Volts with 0-3Amps. The fan of unit turns on when the temperature reaches 140°F or 60°C. It has a standard 110V/220VAC input only with fuse protecting.

2.2 Operating Procedure

For constant Voltage mode make sure #10 is depressed and the LCD # 9 is off.

By rotating the knob of #3 to the right increases the voltage output and rotating it to the left decreases the voltage output.

3. Attention:

3.1 The mains power must be switched off before servicing and servicing should be referred to a qualified person.

3.2 The unit should be stored in a dry and well ventilated place and the power cord should be removed for long periods of inactivity.

4. Accessories:

- 4.1 Power cord----- one piece
- 4.2 Instruction Manual----one piece
- 4.3 One set of Banana plug to Alligator Clips
- 4.4 One set of hook up wires for external hook up.