Data Sheet

Triple Output DC Power Supplies

Models 1651A & 1652



Model 1651A



Model 1652

The models 1651A & 1652 are Triple Output DC Power Supplies with two variable 0 to 24 VDC outputs capable of supplying 0 to 500 mA, and one fixed 5 VDC output capable of supplying up to 4 A. Connect outputs in series for higher voltage or connect in parallel for higher current output (switch selectable). Voltage and current metering is provided by two, three-digit LED displays (model 1652) or two analog displays (model 1651A). These units are fully protected against short circuit, overload, and reverse polarity.

Features and Benefits

- Two variable 0 to 24 VDC, 0 to 500 mA outputs
- One fixed 5 VDC, 4 A output
- Independent or series/parallel tracking operation
- Adjustable current limiting
- Designed to operate continuously at rated output
- Short circuit, overvoltage, and reverse polarity protection

Specifications

Model	1651A	1652
Number of Outputs	Three (two variable and one fixed)	
Output Voltage	0 to 24 VDC (A & B) 5 VDC (C)	
Output Current	0 to 500 mA (A & B) 4 A (C)	
Constant Voltage Operation		
Line Regulation	< 0.01% + 3 mV main < 5 mV for line fixed supply	
Load Regulation	< 0.01% + 3 mV main < 10 mV fixed	
Recovery time	100 uS	
Ripple & Noise (5 Hz to 1 MHz)	<2 mVrms (≤ 5 mVrms for fixed output)	
Temperature Coefficient	< 300 ppm°C	
Tracking Error	No Load: ≤ 0.2% + 20 mV Full Load: ≤ 0.2% + 100 mV	
Constant Current Operation		
Adjustable Current Range	5% to 100%	
Line Regulation	< 0.2% + 6 mA	
Load Regulation	<0.2% + 3 uA	
Current Ripple	< 3 mA rms	
Metering		
Display	dual analog	dual 3-digit LED
Voltmeter Accuracy	2.5% to full scale	+(0.5% rdg + 2 digits)
Ammeter Accuracy	2.5% to full scale	+(0.5% rdg + 2 digits)
General		
Overload Protection	Short circuit, over voltage, and reverse polarity protection	
Power Requirements	108-132 VAC 60 Hz, (120/220, +10%, 50/60 Hz versions available)	
Power Consumption	165 W	
Operating Temperature	0° to 40°C < 85% R.H.	
Storage Temperature	15° to 70°C < 85% R.H.	
Dimension (H x W x D)	5.5 x 11.75 x 10.975" (140 x 298 x 264 mm)	
Weight	10.5 lbs. (4.8 kg)	
	One Year Warranty	
Included Accessories	3 sets of hook-up cables, power cord, sapre fuse & instruction manual	

Technical data subject to change
© B&K Precision Corp. 2012
v071912

B&K PRECISION
ELECTRONIC TEST INSTRUMENTS