INSTRUCTION MANUAL

MANUAL DE INSTRUCCIONES

EX PRECISION[®]

Model 1665/ 1666/ 1667 Modelo 1665/1666/1667



BENCH SWITCHING DC POWER SUPPLIES

FUENTES DE POTENCIA CC DE LA CONMUTACIÓN

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<u>1. SAFETY INSTRUCTIONS</u>

- 1. Do not use this apparatus near water.
- 2. Clean only with dry cloth.
- 3. Do not block any ventilation openings.
- 4. Do not install unit near any heat source or heating emitting devices.
- 5. Prevent the power cord from being walked on or pinched.
- 6. Unplug this unit during lighting storms or when unused for long periods of time.

PRECAUTIONS

- 1. The unit must be used within its specified range.
- 2. The rated input voltages can be found on the rating label at the back the unit.
- 3. Before plugging into the AC supply, check with the rating label.
- 4. Refer all servicing to manufacturer.

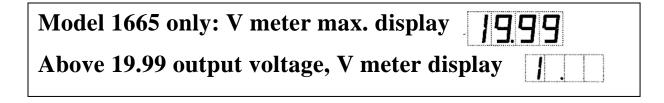
WARNING

Model 1667 has maximum output voltage up to 60Vdc. It may be hazardous to touch metal part of the output terminals. User must avoid touching live metal part of the output terminals.

2. INTRODUCTION

These Laboratory Grade Switching DC Power Supplies were built with coarse and fine output voltage and current limiting controls.

Current limiting control with automatic crossover of constant voltage (CV) and constant current (CC) indicators make this series ideal for research and development work in laboratories.

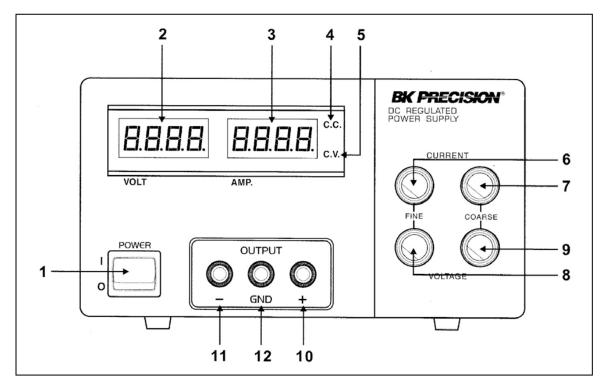


3. SPECIFICATIONS

Specifications	1665	1667	1667	
Output Voltage:	I-19VDC	1-40VDC	1-60VDC	
Output Voltage Control:	Fine & Coarse	Fine & Coarse	Fine & Coarse	
Output Current:	0-10A	0-5A	0-3.3A	
Ripple & Noise (P-P):	20mV	20mV	20mV	
Load Regulation:	0.5% + 200 mV	0.5%+200mV	0.5% +200mV	
Line Regulation:	50mV	50mV	50mV	
Input Voltage:	100 - 240 VAC, 50Hz / 60Hz			
Meter Type:	Digital LED			
Voltmeter Resolution:	10 mV	10 mV	10 mV	
Ammeter REsolution:	10 mA	10 mA	10 mA	
Voltmeter Accuracy:	1% + 2 counts			
Ammeter Accuracy:	0.5% + 2 counts			
Indicators:	CC & CV			
Cooling System:	Thermostatic control fan			
Protection Devices: Approvals:	CE			
Dimension (WxHxD):	8" x 4.5" x 11" (205 x 115 x 275 mm)			
Weight:	6.6lbs (3 Kg)			

NOTE: Specifications and information are subject to change without notice. Please visit <u>www.bkprecision.com</u> for the most current product information.

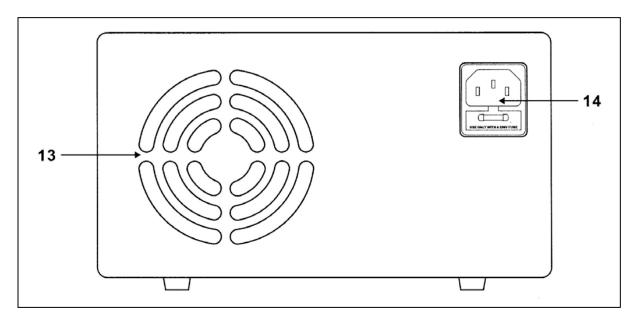
4. CONTROLS AND INDICATORS



FRONT PANEL

4. CONTROLS AND INDICATORS

REAR PANEL



Front Panel

- 1. Power Switch -- Turns the power supply ON/OFF.
- 2. DC Voltmeter (LED Display)* -- Indicated the present output voltage with auto range.
- 3. DC Ammeter (LED display) -- Indicates the present output current with auto range.
- 4. Constant Current Mode (C.C.) -- Indicator Indicates the power supply is operating in constant current mode.
- 5. Constant Voltage Mode (C.V.) -- Indicator Indicates the power supply is operating in voltage mode.
- 6. Current Fine Adjust -- Fine adjust knob for current limiting point and current value in constant current mode.
- 7. Current Coarse Adjust -- Coarse adjust knob for current limiting point and current value in constant current mode.
- 8. Voltage Fine Adjust -- Fine adjust knob for the output voltage in voltage mode.
- 9. Voltage Coarse Adjust -- Coarse adjust knob for the output voltage in voltage mode.
- 10. **Output Terminal Positive** (+) -- Terminal for tapping of positive (-}-) output.
- 11. Output Terminal Negative (-) -- Terminal for tapping of negative (-) output.
- 12. **GND Terminal --** Chassis ground terminal. Normally, this is connected to either the + or terminal depending on the application.

Rear Panel

- 12. Fan -- Allow at least 80 mm space from wall.
- 13. Input Socket with fuse.

5. **OPERATING PROCDURES**

Output Voltage Control - It is a dual control consisting of a coarse and fine potentiometer. The final DC voltage output is the sum of both adjustments.

Current Limiter Control - It is a dual control (coarse/fine) that changes the DC current over the rated current range.

Ground Connections - For operating with negative or positive output terminal, grounded or without grounding. Connections (+ or -) are made by using the shorting plate at the terminal.

REMARKS: When operating this supply without being grounded, high impedance leakage can exist between the power supply circuitry and the chassis ground.

Basic Mode of Operation - This power supply is designed to operate as a constant voltage source or as a constant current source. Automatic crossover to either mode of operation occurs when load conditions change as follows:

• Constant Voltage - The power supply will function as a constant voltage source as long as the load current is less than the current limiting value set by the current limit operation. When the load current is equal to or greater than the current limit set, the power supply will automatically crossover and operate as a constant source.

• Constant Voltage Automatic Crossover - The power supply will function as a constant source when the load voltage does not equal to the voltage value set by the output voltage control. When the load voltage equals to the value set by the output voltage control the power supply will automatically cross over and operate as a constant voltage source.

• Presetting Current Limiting Value - There are occasions when you will not want your load to draw too much current or want to prevent any damage, you can preset the current limiting value as follows : Short circuit the output terminals and adjust the current limit control to your desired value.

Limited One-Year Warranty

B&K Precision Corp. warrants to the original purchaser that its products and the component parts thereof, will be free from defects in workmanship and materials for a period of one year from date of purchase.

B&K Precision Corp. will, without charge, repair or replace, at its option, defective product or component parts. Returned product must be accompanied by proof of the purchase date in the form of a sales receipt.

To obtain warranty coverage in the U.S.A., this product must be registered by completing a warranty registration form on <u>www.bkprecision.com</u> within fifteen (15) days of purchase.

Exclusions: This warranty does not apply in the event of misuse or abuse of the product or as a result of unauthorized alterations or repairs. The warranty is void if the serial number is altered, defaced or removed.

B&K Precision Corp. shall not be liable for any consequential damages, including without limitation damages resulting from loss of use. Some states do not allow limitations of incidental or consequential damages. So the above limitation or exclusion may not apply to you.

This warranty gives you specific rights and you may have other rights, which vary from state-to-state.

B&K Precision Corp. 22820 Savi Ranch Parkway Yorba Linda, CA 92887 www.bkprecision.com 714-921-9095 **Warranty Service:** Please return the product in the original packaging with proof of purchase to the address below. Clearly state in writing the performance problem and return any leads, probes, connectors and accessories that you are using with the device.

Non-Warranty Service: Return the product in the original packaging to the address below. Clearly state in writing the performance problem and return any leads, probes, connectors and accessories that you are using with the device. Customers not on open account must include payment in the form of a money order or credit card. For the most current repair charges please visit <u>www.bkprecision.com</u> and click on "service/repair".

Return all merchandise to B&K Precision Corp. with pre-paid shipping. The flat-rate repair charge for Non-Warranty Service does not include return shipping. Return shipping to locations in North American is included for Warranty Service. For overnight shipments and non-North American shipping fees please contact B&K Precision Corp.

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Include with the returned instrument your complete return shipping address, contact name, phone number and description of problem.



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