

25A 3-14VDC Power Supply Model 1688A



The B+K Precision Model 1688A is a high quality 3 to 14 Volt DC Power Supply primarily designed for bench powering of automotive and marine electronic equipment. The Model 1688A has a maximum output current proportional to the voltage setting, the maximum current of 20 amps available from 13.8 to 14 volts and is reduced to 4.5 amps at 3 volts. Two panel mounted meters continuously monitor the output voltage and current.

- 20 A guaranteed @ 13.8V -Current limiting overload protection
- Over voltage protection
- Short circuit protection
- Reverse polarity protection
- Thermostatically controlled cooling fan
- Thermal protection
- Operates continuously at full load without overheating
- Connect two in parallel for more current
- Connect two in series for higher voltage

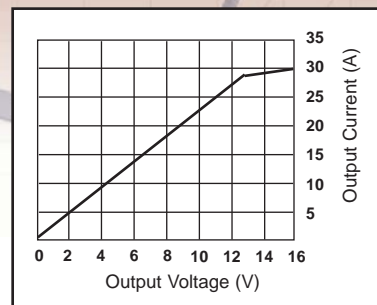


1690



1688A

High Current DC Power Supplies



* Graph showing the relationship the output voltage has on the output current.

B+K High Current DC Power Supplies are designed for continuous duty and are ideal for substituting car batteries. For servicing/demonstrating high-power car stereos, cellular phone products, camcorders, and ham radios. Hobbyists, retailers, and service shops use car batteries to power mobile equipment. Car batteries are heavy, leak acid, spark, can't tolerate shorted outputs, and must be recharged.

These Power Supplies provide their maximum current output continuously hour after hour without overheating. For more output, just connect two or more in parallel or series. These are the only high-current supplies in their price range built to withstand continuous duty!

Model 1689, 1690 Regulated 28A DC Power Supply

The new B+K Precision Regulated 28A DC Power Supplies 1689 & 1690 offer multiple DC output terminals; two pairs of 3A, snap-in DC connectors are easily accessible on the front panel, and a pair of 28A screw-on DC output terminals are located on the rear panel. Both models provide their maximum current output continuously hour after hour without thermal drifting. They are ideal car battery substitutions for servicing or demonstrating high power car stereo, cellular phone products, or even ham radio.

- 1VDC to 15VDC Variable Output
- 28A Output at $\geq 13.5VDC$
- Overload protection
- High RFI stability
- Multiple DC Output Terminals.

Models 1686A & 1688A Variable Voltage - 3 to 14 volts DC output

- 20 A guaranteed @ 13.8V (Model 1688A)
- 12 A guaranteed @ 13.8V (Model 1686A)
- Current limiting overload protection
- Over voltage protection
- Short circuit protection
- Reverse polarity protection
- Thermostatically controlled cooling fan
- Thermal protection
- Operates continuously at full load without overheating
- Connect two in parallel for more current
- Connect two in series for higher voltage

Specifications	models	
	1689	1690
DC Output MAX Ratings		
Voltage	1-15V	
Current	*28A (@13.8V)	
Meter Accuracy	7% FS	$\pm(0.2\% + 2 \text{ digits})$
Line Regulation	5mV ($\pm 2\%$ Load)	
Load Regulation	50mV (0-100% Load)	
Ripple & Noise (RMS)	5mV	
Operating Voltage	120 VAC, 60 Hz	
Dimension (W x H x D)	9.84 x 5.5 x 8.86" (250 x 140 x 225mm)	
Weight	19.9 lbs. (9kg)	
Display	Precision Analog	Digital LED

Accessories

SUPPLIED: User Manual

One Year Warranty

Specifications	models	
	1686A	1688A
Output		
Output Voltage	3 to 14 VDC	
Output Current	Proportional to Output Voltage	
DCV Output-Max DCA	3V - 2.5A 5V - 4.5A 9V - 7.5A 12V - 10A 13.8V - 12A 14V - 12A	3V - 4.5A 5V - 7.5A 9V - 13A 12V - 20A 13.8V - 20A 14V - 20A
Line Regulation	(108-132VAC) $\leq 0.8\%$	
Ripple and Noise	$\leq 10mVrms$.	
Metering		
Voltmeter Range	0-20V	0-30V
Voltmeter Accuracy	$\pm 7\%$ FS	
Ammeter Range	0-20A	0-30A
Ammeter Accuracy	$\pm 7\%$ FS	
General		
Power Requirements	120/220 VAC $\pm 10\%$, 50/60 Hz.	
Power Consumption	400W	580W
Operating Temperature	32° to 104°F (0° to 40°C), $\leq 85\%$ R.H.	
Storage Temperature	5° to 158°F (-15° to 70°C), $\leq 75\%$ R.H.	
Dimensions (HxWxD)	8.1 x 4.5 x 10.6" (205 x 115 x 270mm)	
Weight	12.1 lbs. (5.5kg)	19.8lbs. (9kg)

Accessories

SUPPLIED: Instruction Manual
OPTIONAL: TL-30 Hook-up leads

One Year Warranty