

### Data Sheet

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!

The B+K Precision Models 1686A & 1688A are a high quality 3 to 14 Volt DC Power Supplies primarily designed for bench powering of automotive and marine electronic equipment. The Models 1686A & 1688A have a maximum output current proportional to the voltage setting (see specifications chart). Two panel mounted meters continuously monitor the output voltage and current.

### 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



**1688A**

### Specifications models

	1686A	1688A
Output	3 to 14 VDC	
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) ≤ 0.8%	
Ripple and Noise	≤ 10mVrms.	
Metering		
Voltmeter Range	0-20V	0-30V
Voltmeter Accuracy	±7% FS	
Ammeter Range	0-20A	0-30A
Ammeter Accuracy	±7% FS	
General		
Power Requirements	120/220 VAC ±10%, 50/60 Hz.	
Power Consumption	400W	580W
Operating Temperature	32° to 104°F (0° to 40°C), ≤ 85% R.H.	
Storage Temperature	5° to 158°F (-15° to 70°C), ≤ 75% R.H.	
Dimensions (HxWxD)	4.9 x 8.5 x 11.5" (124 x 216 x 292mm)	
Weight	12.1 lbs. (5.5kg)	19.8lbs. (9kg)

### Accessories One Year Warranty

SUPPLIED: Instruction Manual, Line Cord  
OPTIONAL: TL-30 Hook-up leads