

3-15VDC, 40A Switching Digital Power Supply Model 1692



The B+K 1692 Switching Mode DC Power Supply provides high current output in a lightweight and compact package. It is suitable for a variety of uses, especially for powering DC operated mobile radio equipment on the bench. It provides a variable voltage output from 3V to 15V at 40A continuous operation. In addition a fixed 13.8 VDC output is also selectable by a slider switch. Switching mode power supplies have the advantage of lightweight and high efficiency when compared to traditional linear mode power supplies. The efficiency can exceed 80% under the best conditions. Advanced circuitry protects against overload and provides immunity from RFI. A bright red and green LED display provides for an accurate and highly readable indicator of settings.

- Lightweight and compact
- High efficiency
- Current fold back circuitry with illuminated indicator prevents overloading the power supply
- Over temperature protection circuitry
- Over voltage protection prevents abnormal high output voltage
- High RFI stability
- Variable output 3V to 15V at 40A



1692

Switch Mode and Fixed DC Power Supplies

Specifications

	models	
	1680	1682A
Output		
Output Voltage	13.8 VDC \pm 0.5V	13.8 VDC \pm 0.5V
Output Current	6 ADC peak, 4 ADC continuous	15 ADC peak, 12 ADC continuous
Line Regulation	(110-132VAC) \leq 130 mV	(110-132 VAC) \leq 0.8%
Ripple and Noise	\leq 10mV rms	
General		
Power Requirements	110-132 VAC, 60 Hz	110-132 VAC, 60Hz
Power Consumption	185W	400W
Temperature Range		
Operating	0° to 40°C, \leq 75% R.H.	0° to 40°C, \leq 75% R.H.
Storage	-15° to 70°C, \leq 85% R.H.	-15° to 70°C, < 85% R.H.
Dimensions(HxWxD)	3-5/8 x 6-5/16 x 6-3/4" (92 x 160 x 170 mm)	8.1" x 4.5" x 10.6" (205 x 115 x 270 mm)
Weight	6.5 lbs. (2.9kg)	15 lbs. (6.75kg)

Accessories

One Year Warranty

SUPPLIED: Instruction Manual
 OPTIONAL: TL-5 Hook-up cable (up to 5A), TL-30 (up to 30A)



1680

Models 1680 & 1682A Fixed Voltage

- 13.8 volts DC output (fixed)
- Model 1680: 6 A peak
- Model 1682A: 15 A peak
- Current foldback overload protection
- Short circuit protection
- Reverse polarity protection
- Thermostatically controlled cooling fan (Model 1682A)
- Convenient cigar lighter output (Model 1680)



1682A

Model 1692

Switch Mode Power Supply

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- Lightweight and compact
- High efficiency
- Current fold-back circuitry with illuminated indicator prevents overloading the power supply
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- Variable output 3V to 15V at 40A

Specifications

	model
	1692
Output Voltage	3 - 15VDC (adjustable) or fixed 13.8VDC (selectable)
Output Current	40A continuous
Ripple and Noise	\leq 10mVrms
Line Regulation (120V \pm 10%)	80mV (\pm 10% variation)
Load Regulation	230mV (0 - 100% load)
Power Requirements	120 VAC, 60 Hz
Metering	Dual color digital LED
Dimensions (HxWxD)	8.67 x 4.33 x 11.82" (220 x 110 x 300 mm)
Weight	7.7 lbs. (3.5 kg)

Accessories

One Year Warranty

SUPPLIED: Instruction Manual
 OPTIONAL: Model TL-5A, Model TL-30 Power Supply Hook-Up Cables