



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"	8.1" x 4.5" x 10.6"
	(92 x 160 x 170 mm)	(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

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 variable control knob. 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

## 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