

Excellent Integrated System Limited

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Data Sheet

Fixed Voltage DC Power Supplies

Models 1680 & 1682A



Model 1680



Model 1682A

The 1680 and 1682A DC power supplies have a regulated output of 13.8 V, which is the same voltage as an automotive electrical system when the engine is running and the battery is charging. At this fixed voltage level, the 1680 can provide 4 A continuous, 6 A peak output current and the 1682A can provide 12 A continuous, 15 A peak output current. These outputs make them ideal for powering most automotive accessories removed from the vehicle. Applications include displaying, demonstrating, and servicing of electronic automotive equipment such as stereo sound systems, cellular telephones, CB radios, mobile two-way radios, and vehicular alarm systems.

Features & Benefits

- Fixed 13.8 VDC output for automotive applications
- 6 A peak (1680), 15 A peak (1682A)
- Current foldback overload protection
- Thermostatically controlled cooling fan (Model 1682A)
- Convenient cigar lighter output (1680)

Models	1680	1682A
Output		
Voltage	Fixed 13.8 V \pm 0.5 V	
Current	6 ADC peak, 4 ADC continuous	15 ADC peak, 12 ADC continuous
Load Regulation (0 to rated current)	\leq 320 mV	\leq 0.8%
Line Regulation (110-132 VAC)	\leq 130 mV	\leq 0.8%
Ripple and Noise	\leq 6 mVrms	\leq 10 mVrms
General		
AC Input	110-132 VAC, 60 Hz	115/230 VAC \pm 10%, 50/60 Hz
Power Consumption	185 W	400 W
Operating Temperature	32 °F to 104 °F (0 °C to 40 °C), \leq 75% R.H.	
Storage Temperature	5 °F to 158 °F (-15 °C to 70 °C), \leq 85% R.H.	
Dimensions	6.31" x 3.62" x 6.75" (160 x 92 x 170 mm)	4.9" x 8.5" x 11.5" (124 x 216 x 292 mm)
Weight	6.5 lbs (2.9 kg)	15 lbs (6.75 kg)
One-Year Warranty		
Included Accessories	User manual & spare fuse	

Note: Model 1680 is only available for 110 V operation.