



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Data Sheet

3-14 V DC Power Supply Model 1686A

Model 1686A is a high quality 3 to 14 V bench DC power supply primarily designed for powering automotive and marine electronic equipment. It has a maximum output current proportional to the voltage setting (see voltage and current output graph) and two panel mounted meters that continuously monitor the output voltage and current.

Designed for continuous duty without overheating, this 12 A DC power supply is an ideal car battery substitution allowing servicing or powering of mostly any car radio, car stereo, PA systems, low to medium power CB transceivers, or marine equipment. The 1686A uses thermostatically controlled fan cooling for improved heat dissipation while keeping bulk and weight to a minimum.



Model 1686A

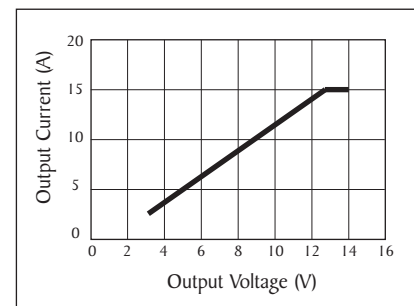
| Specifications | 1686A |
|--|---|
| Output | |
| Voltage | 3 - 14 V |
| Current (Proportional to Output Voltage) | *12 A (at 13.8 V) |
| Load Regulation | ≤ 0.8% |
| Line Regulation (108-132V AC) | ≤ 0.8% |
| Ripple and Noise | ≤ 10 mVrms |
| Metering | |
| Voltmeter Range | 0-20 V |
| Voltmeter Accuracy | ±7% F.S. |
| Ammeter Range | 0-20 A |
| Ammeter Accuracy | ±7% F.S. |
| General | |
| AC Input | 115/230 VAC ±10%, 50/60 Hz |
| Power Consumption | 400 W |
| 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 292 mm) |
| Weight | 12.1 lbs (5.45 kg) |
| One-Year Warranty | |
| Included Accessories | Instruction Manual, Line Cord, Spare Fuse |

* see graph for output current and output voltage

Features & Benefits

- 3 V to 14 V variable output
- 12 A output at 13.8 V*
- Thermostatically controlled cooling fan
- Continuous operation at full load without overheating
- Connect two or more units in parallel or series for higher current or voltage
- Convenient 2 A tie point terminals on front panel
- Overvoltage protection, foldback current limiting, and reverse polarity protection

Output Voltage and Current



Graph showing relationship between output voltage and output current