

Data Sheet

High Current DC Power Supplies  
Models 1790, 1791, 1794, 1795 & 1796



Model 1795

Models 1790, 1791, 1794, 1795 & 1796 are cost-effective, high power, regulated DC power supplies. These linear power supplies are high power workhorses that will easily deliver clean power to your high-current circuits. Special features include the ability to set constant current with no load and remote sense to compensate for any voltage drop in load leads.

Features & Benefits

- Constant voltage (CV) and constant current (CC) operation
- High stability and excellent regulation
- Separate output ON/OFF switch
- Remote sensing
- External analog programming interface

| Specifications                                                                                     | 1790                                                   | 1791   | 1794     | 1795   | 1796     |
|----------------------------------------------------------------------------------------------------|--------------------------------------------------------|--------|----------|--------|----------|
| Output Characteristics                                                                             |                                                        |        |          |        |          |
| Voltage                                                                                            | 0-32 V                                                 | 0-64 V | 0-32 V   | 0-64 V | 0-16 V   |
| Current                                                                                            | 0-20 A                                                 | 0-10 A | 0-30 A   | 0-15 A | 0-50 A   |
| Max. Power                                                                                         | 640 W                                                  | 640 W  | 960 W    | 960 W  | 800 W    |
| Constant Voltage Mode                                                                              |                                                        |        |          |        |          |
| Line Regulation                                                                                    | < ±0.01% ± 2 mV                                        |        |          |        |          |
| Load Regulation                                                                                    | < ±0.01% ± 2 mV                                        |        |          |        |          |
| Ripple and Noise (20 Hz - 20 MHz)                                                                  | < 1mV rms                                              |        |          |        |          |
| Constant Current Mode                                                                              |                                                        |        |          |        |          |
| Line Regulation                                                                                    | < ±0.05% ± 15 mA                                       |        |          |        |          |
| Load Regulation                                                                                    | < ±0.05% ± 15 mA                                       |        |          |        |          |
| Ripple and Noise (20 Hz - 20 MHz)                                                                  | 3 mA rms                                               |        | 6 mA rms |        | 3 mA rms |
| General                                                                                            |                                                        |        |          |        |          |
| Stability<br>(Total drift within 8 hours after warm up under constant line, load, and temperature) | ± 0.2% ± 10 mV in CV mode<br>± 0.5% ± 10 mA in CC mode |        |          |        |          |
| Operating Temperature                                                                              | 32 to 104 °F (0 to 40 °C)                              |        |          |        |          |
| AC Input                                                                                           | 120 / 230* VAC ±10%, 47-63 Hz                          |        |          |        |          |
| Dimension (W x H x D)                                                                              | 19" x 5.24" x 15.75" (483 x 133 x 400 mm)              |        |          |        |          |
| Two-Year Warranty                                                                                  |                                                        |        |          |        |          |
| Included Accessories                                                                               | User manual and power cord                             |        |          |        |          |

\*230 VAC input requires modification that should be requested at time of order.