

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	$\pm 0.01\% \pm 2 \text{ mV}$				
Load Regulation	$\pm 0.01\% \pm 2 \text{ mV}$				
Ripple and Noise (20 Hz - 20 MHz)	<math>< 1 \text{ mV rms}</math>				
Constant Current Mode					
Line Regulation	$\pm 0.05\% \pm 15 \text{ mA}$				
Load Regulation	$\pm 0.05\% \pm 15 \text{ mA}$				
Ripple and Noise (20 Hz - 20 MHz)	3 mA rms		6 mA rms		3 mA rms
General					
Stability (Total drift within 8 hours after warm up under constant line, load, and temperature)	$\pm 0.2\% \pm 10 \text{ mV}$ in CV mode $\pm 0.5\% \pm 10 \text{ mA}$ in CC mode				
Operating Temperature	32 to 104 °F (0 to 40 °C)				
AC Input	120 / 230* VAC $\pm 10\%$, 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.