



# LP1210

## LOOP POWER SUPPLY

The LP1210 is a Ten Channel Loop Power Supply that may be used to convert MIL-188-114 data to 120 VDC neutral LOOP DATA. The loop current of each channel may be set for either 20 or 60 milliamperes (Mark condition). Each of the ten channels include optically isolated circuitry for MIL-188-114-to-loop and Loop-to-MIL-188 conversion, allowing use in a full duplex send-receive system.

Electronic circuits for each channel are identical, each contained on a separate 4.5" x 6" plug-in card. Each card includes 5 on-board LED indicators to assist in tracing system faults and maintenance of the LP1210. Each card may be separately removed from the main chassis via a hinged door in the LP1210 front panel. The low voltage regulator circuitry is contained on a plug-in circuit card and is also removable through the front panel. This regulator card also includes LED indicators. A circuit extender PC card is included with each LP1210 to further assist in maintenance.

An internal 100 CFM blower provides cooling for internal power resistors and transformers. Separate DB-25 rear-panel connectors are provided for each of the ten MIL-188-114 data I/O connectors; a separate 6-terminal barrier strip is provided for each channel Loop In/Out connection.

The LP1210 is designed for rugged service and has a calculated MTBF in excess of 100,000 hours (MIL-HDBK-217D). The operating temperature is 0C to + 50C, and the storage is -51C to + 68.3C.

---

### SPECIFICATIONS

---

|                    |   |
|--------------------|---|
| Number of Channels | 10, isolated  |
| Low-Level Data     | MIL-188-114; Mark = -6 VDC; Space = +6 VDC<br>Connector: DB-25P; Data Rate: 75 baud   |
| Loop Data          | 20 VDC Neutral Current Loop; isolated from ground and other signals; Mark = loop current ON; Space = loop current OFF; Output Loop = 20 to 60 ma; Input Loop = 10 to 100 ma; Connector = 6-position barrier terminal strip; Data Rate = 75 baud |
| AC Power           | 110-125 or 220-240 VAC (rear panel switch selected); at 60 Hz - 120 watts; at 50 Hz - 155 watts   |
| Mechanical         | 7" (17.8 cm) high by 19" (48.2 cm) wide rack panel; Overall size: 7" (17.8 cm) by 19" (48.2 cm) by 17" (43.2 cm); 24 lbs. (10.9 kg) net, 30 lbs. (13.6 kg) shipping.  |



### HAL COMMUNICATIONS CORP.

1201 W. Kenyon Road, P.O. Box 365  
Urbana, Illinois 61801-0365  
Phone: (217) 367-7373 FAX (217) 367-1701  
[www.halcomm.com](http://www.halcomm.com)